

aiwa



XR-M1000 XR-H1000

STEREO SYSTEM

- BASIC TAPE MECHANISM: 2ZM-3MK2 YPR4N
- BASIC CD MECHANISM: 4ZG-1 Z3DSHNM

- TYPE: U(M1000),LH(H1000)

TYPE	AMPLIFIER	CASSETTE DECK	GRAPHIC EQUALIZER	CD PLAYER	SPEAKERS	REMOTE CONTROL
U	MX-NM1000	FX-NM1000	GE-NM1000	DX-NM1000	SX-NMT1000	RC-7AS08
LH	MX-NH1000	FX-NH1000	GE-NH1000	DX-NH1000	SX-NAVH1000	

ELECTRICAL MAIN PARTS LIST - 1/6 (MX-NM1000/NH1000)

NOTE: The characters in the suffix column indicate the part usage.

U	XX	A		
LH	XX	B		
REF.NO	PARTS NO.	DESCRIPTION	SUFFIX	
C	209	87-010-071-040	CAP, E 1-50 5L	AB
C	201	87-010-192-080	C-CAP, S 0.022-50 F	AB
C	205	87-010-194-080	CAP, CHIP 0.047	AB
C	207	87-010-194-080	CAP, CHIP 0.047	AB
C	202	87-010-264-040	CAP, E 100-10 5L	AB
C	206	87-010-405-040	CAP, E 10-50	AB
C	203	87-010-490-040	CAP, ELECT 0.1-50	AB
C	208	87-A10-189-040	CAP, E 220-10	AB
C	204	87-A10-586-040	CAP, E 47-35 7L SR	AB
C	211	87-012-140-080	CAP, 470P	AB
C	222	87-010-401-040	CAP, E 1-50 SME	AB
C	220	87-016-669-080	C-CAP, S 0.1-25 K B	AB
C	221	87-016-669-080	C-CAP, S 0.1-25 K B	AB
C	241	87-010-178-080	CHIP CAP 1000P	AB
C	248	87-010-192-080	C-CAP, S 0.022-50 F	AB
C	243	87-010-312-080	C-CAP, S 15P-50 CH	AB
C	244	87-010-316-080	C-CAP, S 33P-50 CH	AB
C	242	87-010-318-080	C-CAP, S 47P-50 CH	AB
C	247	87-016-669-080	C-CAP, S 0.1-25 K B	AB
D	201	87-017-931-080	ZENER, MTZJ5.6B	AB
D	202	87-A40-468-080	C-DIODE, HSM2836CTR	AB
D	203	87-A40-470-080	DIODE, 1SS254	AB
D	205	87-A40-470-080	DIODE, 1SS254	AB
D	240	87-A40-470-080	DIODE, 1SS254	AB
D	241	87-A40-470-080	DIODE, 1SS254	AB
IC	202	87-A20-914-010	IC, SPS-442-1-F	AB
IC	201	88-SP1-609-010	IC, UPD780228-XXXX	AB
Q	201	87-A30-087-080	C-FET, 2SK2158	AB
Q	220	87-A30-071-080	C-TR, RT1N 144C	AB
Q	241	87-026-263-080	C-TR, RN1410	AB
Q	240	87-A30-074-080	C-TR, RT1P 141C	AB
SW	201	87-A90-535-010	SW, RTRY EC16B24304	AB
X	201	87-A70-075-080	VIB, CER 4.19MHZ CRHF	AB
C	608	87-010-166-080	C-CAP, S 100P-50 SL	AB
C	604	87-010-166-080	C-CAP, S 100P-50 SL	AB
C	602	87-010-176-080	C-CAP, S 680P-50 SL	AB
C	603	87-010-186-080	CAP, CHIP 4700P	AB
C	605	87-010-321-080	CHIP CAPACITOR, 82P(J)	AB
C	601	87-010-405-040	CAP, E 10-50	AB
C	606	87-010-544-040	CAP, E 0.1-50 SME	AB
C	609	87-010-545-040	CAP, E 0.22-50 SME	AB
C	610	87-010-177-080	C-CAP, S 820P-50 SL	AB
C	614	87-010-248-040	CAP, E 220-10 SME	AB
C	615	87-010-378-040	CAP, E 10-16	AB
C	611	87-010-406-040	CAP, E 22-50 SME	AB
C	619	87-016-526-080	C-CAP, S 0.47-16 BK	AB
C	905	87-010-180-080	C-CER, 1500P	AB
C	909	87-010-181-080	CAP, CHIP S 1800P	AB
C	908	87-010-188-080	CAP, CHIP 6800P	AB
C	904	87-010-188-080	CAP, CHIP 6800P	AB
C	907	87-010-197-080	CAP, CHIP 0.01 DM	AB
C	906	87-010-197-080	CAP, CHIP 0.01 DM	AB
C	902	87-016-669-080	C-CAP, S 0.1-25 K B	AB
C	901	87-016-669-080	C-CAP, S 0.1-25 K B	AB
C	903	87-A10-712-080	C-CAP, S 0.22-50 Z F	AB
C	916	87-010-184-080	CHIP CAPACITOR 3300P(K)	AB
C	915	87-010-184-080	CHIP CAPACITOR 3300P(K)	AB
C	910	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB
C	918	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB
C	917	87-010-260-040	CAP, E 47-25 SME	AB
C	919	87-010-264-040	CAP, E 100-10 5L	AB
C	914	87-010-401-040	CAP, E 1-50 SME	AB
C	913	87-010-401-040	CAP, E 1-50 SME	AB
C	912	87-016-526-080	C-CAP, S 0.47-16 BK	AB
C	921	87-010-318-080	C-CAP, S 47P-50 CH	AB
C	920	87-010-318-080	C-CAP, S 47P-50 CH	AB
C	922	87-010-318-080	C-CAP, S 47P-50 CH	AB
CN	901	87-099-195-010	CONN, 7P 6216 V	AB
D	600	87-A40-470-080	DIODE, 1SS254	AB
FB	901	87-070-136-080	ZENER, MTZJ5.1B	AB
IC	601	87-008-372-080	FILTER, EMI BL OIRNI	AB
IC	601	87-017-888-080	IC, NJM4558MD	AB
J	901	87-A20-560-040	C-IC, M65849BFP	AB
J	601	87-A60-284-010	JACK, 3.5M0 (MSC)	AB
J	602	87-A60-284-010	JACK, 3.5M0 (MSC)	AB
Q	600	87-A30-087-080	C-FET, 2SK2158	AB
C	805	87-010-159-080	C-CAP, S 27P-50 SL	AB
C	804	87-010-159-080	C-CAP, S 27P-50 SL	AB
C	802	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB
C	801	87-010-263-040	CAP, E 100-10	AB
C	803	87-010-405-040	CAP, E 10-50	AB
C	806	87-016-526-080	C-CAP, S 0.47-16 BK	AB
D	801	87-070-136-080	ZENER, MTZJ5.1B	AB
D	802	87-A40-470-080	DIODE, 1SS254	AB
IC	801	88-NF5-615-040	C-IC, MSM6654A-521GS-KR1	AB
X	801	87-A70-075-080	VIB, CER 4.19MHZ CRHF	AB
C	503	87-010-180-080	C-CER 1500P	AB
C	504	87-010-180-080	C-CER 1500P	AB
C	513	87-010-404-080	CAP, ELECT 4.7-50V	AB

ELECTRICAL MAIN PARTS LIST - 2/6 (MX-NM1000/NH1000)

C	514	87-010-404-080	CAP, ELECT 4.7-50V	AB
C	511	87-010-405-080	CAP, ELECT 10-50V	AB
C	512	87-010-405-080	CAP, ELECT 10-50V	AB
C	519	87-012-142-080	CAP, S 0.33-16	AB
C	522	87-010-183-080	C-CAP, S 2700P-50 B	AB
C	521	87-010-194-080	CAP, CHIP 0.047	AB
C	523	87-016-669-080	C-CAP, S 0.1-25 K B	AB
C	520	87-016-669-080	C-CAP, S 0.1-25 K B	AB
C	535	87-010-195-080	C-CAP, S 0.068-25 F	AB
C	537	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB
C	532	87-010-260-080	CAP, ELECT 47-25V	AB
C	534	87-010-263-080	CAP, ELECT 100-10V	AB
C	533	87-010-263-080	CAP, ELECT 100-10V	AB
C	539	87-010-404-080	CAP, ELECT 4.7-50V	AB
C	538	87-010-404-080	CAP, ELECT 4.7-50V	AB
C	531	87-010-405-080	CAP, ELECT 10-50V	AB
C	536	87-012-142-080	CAP, S 0.33-16	AB
C	545	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB
C	540	87-010-314-080	C-CAP, S 22P-50V	AB
C	542	87-010-314-080	C-CAP, S 22P-50V	AB
C	541	87-010-314-080	C-CAP, S 22P-50V	AB
D	532	87-A40-002-080	ZENER, MTZJ5.1C	AB
D	531	87-A40-438-080	ZENER, MTZJ4.7A	AB
IC	501	87-A20-954-040	C-IC, M62445FP-601	AB
C	501	87-026-609-080	TR, KTA1266GR	AB
C	109	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB
C	108	87-012-368-080	C-CAP, S 0.1-50 F	AB
C	106	87-012-368-080	C-CAP, S 0.1-50 F	AB
C	107	87-012-368-080	C-CAP, S 0.1-50 F	AB
C	105	87-012-368-080	C-CAP, S 0.1-50 F	AB
C	102	87-016-520-090	CAP, E 3300-65	AB
C	101	87-016-520-090	CAP, E 3300-65	AB
C	104	87-016-658-090	CAP, E 4700-35 SMG	AB
C	103	87-016-658-090	CAP, E 4700-35 SMG	AB
C	110	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB
C	111	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB
C	112	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB
C	113	87-010-247-080	CAP, ELECT 100-50V	AB
C	116	87-010-247-080	CAP, ELECT 100-50V	AB
C	119	87-010-260-080	CAP, ELECT 47-25V	AB
C	118	87-010-263-080	CAP, ELECT 100-10V	AB
C	114	87-010-385-080	CAP, ELECT 220-25V	AB
C	115	87-010-385-080	CAP, ELECT 220-25V	AB
C	117	87-010-430-080	CAP, ELECT 100-63	AB
C	124	87-010-112-080	CAP, ELECT 100-16V	AB
C	121	87-010-174-080	CAP, CHIP SL470P (K)	AB
C	125	87-010-235-080	CAP, E 470-16 SME	AB
C	123	87-010-247-080	CAP, ELECT 100-50V	AB
C	122	87-010-263-080	CAP, ELECT 100-10V	A
C	120	87-010-403-080	CAP, ELECT 3.3-50V	AB
C	908	87-010-190-080	S CHIP F 0.01	AB
C	907	87-010-190-080	S CHIP F 0.01	AB
C	906	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB
C	905	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB
C	904	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB
C	903	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB
C	909	87-012-368-080	C-CAP, S 0.1-50 F	AB
C	910	87-012-368-080	C-CAP, S 0.1-50 F	AB
C	920	87-012-157-080	C-CAP, S 330P-50 CH	AB
C	921	87-012-157-080	C-CAP, S 330P-50 CH	AB
C	922	87-012-157-080	C-CAP, S 330P-50 CH	AB
C	923	87-012-157-080	C-CAP, S 330P-50 CH	AB
CN	905	87-099-196-010	CONN, 8P 6216 V	AB
D	102	87-017-447-010	DIODE, GBU4DL	AB
D	107	87-070-274-080	DIODE, 1N4003 SEM	AB
D	108	87-070-274-080	DIODE, 1N4003 SEM	AB
D	109	87-070-274-080	DIODE, 1N4003 SEM	AB
D	106	87-070-274-080	DIODE, 1N4003 SEM	AB
D	104	87-A40-468-080	C-DIODE, HSM2836CTR	AB
D	105	87-A40-469-080	C-DIODE, HSM2838CTR	AB
D	103	87-A40-470-080	DIODE, 1SS254	AB
D	115	87-A40-004-080	ZENER, MTZJ16A	AB
D	110	87-A40-341-080	ZENER, MTZJ 36 A	AB
D	112	87-A40-345-080	ZENER, MTZJ10C	AB
D	111	87-A40-468-080	C-DIODE, HSM2836CTR	AB
D	901	87-A40-470-080	DIODE, 1SS254	AB
FC	101	87-033-213-080	CLAMP, FUSE	AB
FC	102	87-033-213-080	CLAMP, FUSE	AB
J	901	87-A60-488-010	JACK, DIA6.3 BLK ST W/SW KM16AT	AB
J	902	87-A60-617-010	TERMINAL, SP 4P (MSC)	AB
J	903	87-A60-653-010	JACK, PIN 4P BLK/BLK	AB
J	905	87-A60-658-010	JACK, PIN 6P WHITE/RED	AB
L	902	87-003-383-010	COIL, 1UH-S	AB
L	901	87-003-383-010	COIL, 1UH-S	AB
PR	103	87-026-682-080	PROTECTOR, 10A 60V491	.B
PR	104	87-026-682-080	PROTECTOR, 10A 60V491	.B
PR	104	87-026-691-080	FUSE, 10A 125V 251	A
PR	103	87-026-691-080	FUSE, 10A 125V 251	A
PR	101	87-A90-195-080	PROTECTOR 7A 125V 49	.B
PR	102	87-A90-195-080	PROTECTOR 7A 125V 49	.B
PR	102	87-A90-210-080	FUSE, 7A 125V 251	A
PR	101	87-A90-210-080	FUSE, 7A 125V 251	A
Q	103	87-026-610-080	TR, KTC3198GR	AB
Q	107	87-A30-075-080	C-TR, 2SA1235F	AB
Q	109	87-A30-075-080	C-TR, 2SA1235F	AB
Q	108	87-A30-076-080	C-TR, 2SC3052F	AB

ELECTRICAL MAIN PARTS LIST - 3/6 (MX-NM1000/NH1000)

Q	104	87-A30-076-080	C-TR, 2SC3052F	AB
Q	106	87-A30-076-080	C-TR, 2SC3052F	AB
Q	105	87-A30-083-080	TR, CSD1489B	AB
Q	102	89-213-702-010	TR, 2SB1370 (1.8W)	AB
Q	101	89-213-702-010	TR, 2SB1370 (1.8W)	AB
Q	112	87-026-609-080	TR, KTA1266GR	AB
Q	111	87-026-609-080	TR, KTA1266GR	AB
Q	115	87-A30-075-080	C-TR, 2SA1235F	AB
Q	114	87-A30-075-080	C-TR, 2SA1235F	AB
Q	110	87-A30-076-080	C-TR, 2SC3052F	AB
Q	901	87-A30-073-080	C-TR, RT1N 141C	AB
Q	123	87-022-200-080	RESISTOR, METAL 0.56 1W	AB
R	909	87-A00-126-080	RES M/F 220-1/WJ VIP	AB
R	912	87-A00-126-080	RES M/F 220-1/WJ VIP	AB
R	911	87-A00-126-080	RES M/F 220-1/WJ VIP	AB
R	910	87-A00-126-080	RES M/F 220-1/WJ VIP	AB
R	101	87-045-389-010	RELAY, OSA-SS-212DM5	AB
RY	901	87-A90-713-010	RELAY, 12V DQ12D1-0S(M)	AB
S	101	87-036-173-010	SW, SL 2-2-4 SDKG(*)	AB
T	102	87-A60-317-010	TERMINAL, 1P MSC	AB
T	101	87-A60-317-010	TERMINAL, 1P MSC	AB
T	101	85-NF5-628-010	F-CABLE 7P-2.5	AB
W	201	87-010-322-080	C-CAP, S 100P-50 CH	AB
C	202	87-010-322-080	C-CAP, S 100P-50 CH	AB
C	209	87-010-403-080	CAP, ELECT 3.3-50V	AB
C	213	87-010-186-080	CAP, CHIP 4700P	AB
C	214	87-010-186-080	CAP, CHIP 4700P	AB
C	212	87-010-187-080	CAP, CHIP S5600P	AB
C	211	87-010-187-080	CAP, CHIP S5600P	AB
C	217	87-010-260-080	CAP, ELECT 47-25V	AB
C	218	87-010-260-080	CAP, ELECT 47-25V	AB
C	210	87-010-403-080	CAP, ELECT 3.3-50V	AB
C	215	87-010-403-080	CAP, ELECT 3.3-50V	AB
C	216	87-010-403-080	CAP, ELECT 3.3-50V	AB
C	219	87-A10-516-080	C-CAP, S 100P-200 J CH	AB
C	223	87-010-405-080	CAP, ELECT 10-50V	AB
C	227	87-010-407-080	CAP, ELECT 33-50V	AB
C	221	87-016-462-080	C-CAP, S 1-16 F	AB
C	222	87-016-462-080	C-CAP, S 1-16 F	AB
C	220	87-A10-516-080	C-CAP, S 100P-200 J CH	AB
C	232	87-010-186-080	CAP, CHIP 4700P	AB
C	231	87-010-186-080	CAP, CHIP 4700P	AB
C	235	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB
C	234	87-010-401-080	CAP, ELECT 1-50V	AB
C	233	87-010-401-080	CAP, ELECT 1-50V	AB
D	201	87-A40-470-080	DIODE, 1SS254	AB
D	207	87-A40-470-080	DIODE, 1SS254	AB
D	208	87-A40-470-080	DIODE, 1SS254	AB
D	203	87-A40-470-080	DIODE, 1SS254	AB
D	209	87-A40-470-080	DIODE, 1SS254	AB
D	205	87-A40-470-080	DIODE, 1SS254	AB
D	202	87-A40-470-080	DIODE, 1SS254	AB
D	204	87-A40-470-080	DIODE, 1SS254	AB
D	206	87-A40-470-080	DIODE, 1SS254	AB
D	214	87-070-136-080	ZENER, MTZJ5.1B	AB
D	213	87-070-136-080	ZENER, MTZJ5.1B	AB
D	212	87-A40-370-090	DIODE, RK46-P20	AB
D	211	87-A40-370-090	DIODE, RK46-P20	AB
D	217	87-A40-470-080	DIODE, 1SS254	AB
D	218	87-A40-470-080	DIODE, 1SS254	AB
D	219	87-A40-470-080	DIODE, 1SS254	AB
D	216	87-A40-470-080	DIODE, 1SS254	AB
D	215	87-A40-470-080	DIODE, 1SS254	AB
D	210	87-A40-470-080	DIODE, 1SS254	AB
D	220	87-A40-345-080	ZENER, MTZJ10C	AB
D	222	87-A40-470-080	DIODE, 1SS254	AB
D	225	87-A40-470-080	DIODE, 1SS254	AB
D	226	87-A40-470-080	DIODE, 1SS254	AB
D	227	87-A40-470-080	DIODE, 1SS254	AB
D	221	87-A40-470-080	DIODE, 1SS254	AB
D	223	87-A40-488-080	DIODE, 1SS244	AB
D	224	87-A40-488-080	DIODE, 1SS244	AB
D	296	87-A40-470-080	DIODE, 1SS254	AB
D	295	87-A40-470-080	DIODE, 1SS254	AB
Q	204	87-A30-075-080	C-TR, 2SA1235F	AB
Q	202	87-A30-086-040	C-TR, CSD1306E	AB
Q	201	87-A30-086-040	C-TR, CSD1306E	AB
Q	207	87-A30-107-080	C-TR, CMBT5401	AB
Q	208	87-A30-107-080	C-TR, CMBT5401	AB
Q	209	87-A30-107-080	C-TR, CMBT5401	AB
Q	214	87-A30-076-080	C-TR, 2SC3052F	AB
Q	211	87-A30-076-080	C-TR, 2SC3052F	AB
Q	212	87-A30-076-080	C-TR, 2SC3052F	AB
Q	213	87-A30-076-080	C-TR, 2SC3052F	AB
Q	218	87-A30-097-010	TR, FN 1016	AB
Q	217	87-A30-097-010	TR, FN 1016	AB
Q	219	87-A30-098-010	TR, FP 1016	AB
Q	210	87-A30-107-080	C-TR, CMBT5401	AB
Q	215	87-A30-190-080	TR, CC5551	AB
Q	216	87-A30-190-080	TR, CC5551	AB
Q	227	87-A30-072-080	C-TR, RT1P 144C	AB
Q	228	87-A30-073-080	C-TR, RT1N 141C	AB
Q	226	87-A30-075-080	C-TR, 2SA1235F	AB
Q	225	87-A30-076-080	C-TR, 2SC3052F	AB
Q	220	87-A30-098-010	TR, FP 1016	AB
Q	222	87-A30-106-080	C-TR, CMBT5551	AB

ELECTRICAL MAIN PARTS LIST - 4/6 (MX-NM1000/NH1000)

O	221	87-A30-106-080	C-TR, CMBT5551	AB
Q	229	87-A30-107-080	C-TR, CMBT5401	AB
Q	223	87-A30-162-010	FET, 2SK2937	AB
Q	224	87-A30-162-010	FET, 2SK2937	AB
Q	291	87-A30-074-080	C-TR, RT1P 141C	AB
Q	295	87-A30-106-080	C-TR, CMBT5551	AB
Q	290	87-A30-107-080	C-TR, CMBT5401	AB
R	239	87-A00-262-080	RES, M/F 0.15-2W J	AB
R	238	87-A00-262-080	RES, M/F 0.15-2W J	AB
R	237	87-A00-262-080	RES, M/F 0.15-2W J	AB
R	240	87-A00-262-080	RES, M/F 0.15-2W J	AB
TH	201	87-A90-221-080	C-THMS, 100K	AB
TH	202	87-A90-221-080	C-THMS, 100K	AB
		88-SP1-211-010	GUIDE, FUN	AB
		88-SX1-203-010	GUIDE, FL	AB
C	101	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB
C	302	87-010-404-040	CAP, E 4.7-50 SME	AB
C	301	87-010-404-040	CAP, E 4.7-50 SME	AB
D	304	87-A40-470-080	DIODE, 1SS254	AB
D	305	87-A40-470-080	DIODE, 1SS254	AB
D	302	87-A40-470-080	DIODE, 1SS254	AB
D	301	87-A40-470-080	DIODE, 1SS254	AB
D	303	87-A40-470-080	DIODE, 1SS254	AB
FL	301	88-SP1-610-010	FL, 10-BT-208GK	AB
LED	305	87-A40-497-080	LED, SML11516C	AB
LED	301	87-A40-497-080	LED, SML11516C	AB
LED	302	87-A40-497-080	LED, SML11516C	AB
LED	304	87-A40-497-080	LED, SML11516C	AB
LED	303	87-A40-497-080	LED, SML11516C	AB
O	307	87-026-226-080	CHIP-TR, DTA143EK	AB
Q	303	87-A30-071-080	C-TR, RT1N 144C	AB
Q	305	87-A30-071-080	C-TR, RT1N 144C	AB
Q	304	87-A30-071-080	C-TR, RT1N 144C	AB
Q	301	87-A30-071-080	C-TR, RT1N 144C	AB
Q	302	87-A30-071-080	C-TR, RT1N 144C	AB
Q	306	89-112-965-080	TR, 2SA1296 (0.75W)	AB
S	308	87-A90-809-080	SW, TACT TSTA-2	AB
S	306	87-A90-809-080	SW, TACT TSTA-2	AB
S	307	87-A90-809-080	SW, TACT TSTA-2	AB
S	303	87-A90-809-080	SW, TACT TSTA-2	AB
S	301	87-A90-809-080	SW, TACT TSTA-2	AB
S	305	87-A90-809-080	SW, TACT TSTA-2	AB
S	304	87-A90-809-080	SW, TACT TSTA-2	AB
S	302	87-A90-809-080	SW, TACT TSTA-2	AB
S	309	87-A90-809-080	SW, TACT TSTA-2	AB
S	311	87-A90-809-080	SW, TACT TSTA-2	AB
S	310	87-A90-809-080	SW, TACT TSTA-2	AB
S	315	87-A90-809-080	SW, TACT TSTA-2	AB
S	312	87-A90-809-080	SW, TACT TSTA-2	AB
S	313	87-A90-809-080	SW, TACT TSTA-2	AB
S	314	87-A90-809-080	SW, TACT TSTA-2	AB
C	603	87-010-182-080	C-CAP, S 2200P-50 B	AB
C	604	87-010-182-080	C-CAP, S 2200P-50 B	AB
C	605	87-010-369-080	C-CAP, S 0.033-25 K B	AB
C	606	87-010-369-080	C-CAP, S 0.033-25 K B	AB
C	609	87-010-374-080	CAP, ELECT 47-10V	AB
C	608	87-010-402-080	CAP, ELECT 2.2-50V	AB
C	607	87-010-402-080	CAP, ELECT 2.2-50V	AB
C	601	87-010-545-080	CAP, ELECT 0.22-50V	AB
C	602	87-010-545-080	CAP, ELECT 0.22-50V	AB
C	612	87-010-112-080	CAP, ELECT 100-16V	AB
C	614	87-010-184-080	CHIP CAPACITOR 3300P(K)	AB
C	613	87-010-184-080	CHIP CAPACITOR 3300P(K)	AB
C	610	87-010-374-080	CAP, ELECT 47-10V	AB
C	611	87-010-405-080	CAP, ELECT 10-50V	AB
CN	601	87-099-195-010	CONN, 7P 6216 V	AB
IC	601	87-A20-804-040	C-IC, NJM2152M	AB
C	701	87-010-402-080	CAP, ELECT 2.2-50V	AB
C	702	87-010-402-080	CAP, ELECT 2.2-50V	AB
C	709	87-010-956-080	CHIP-CAP, S 0.068-25B	AB
C	708	87-012-365-080	C-CAP, S 0.027-25VBK	AB
C	707	87-012-365-080	C-CAP, S 0.027-25VBK	AB
C	706	87-016-460-080	C-CAP, S 0.22-16 B	AB
C	705	87-016-460-080	C-CAP, S 0.22-16 B	AB
C	703	87-016-669-080	C-CAP, S 0.1-25 K B	AB
C	704	87-016-669-080	C-CAP, S 0.1-25 K B	AB
C	719	87-010-178-080	CHIP CAP 1000P	AB
C	715	87-010-183-080	C-CAP, S 2700P-50 B	AB
C	716	87-010-183-080	C-CAP, S 2700P-50 B	AB
C	718	87-010-188-080	CAP, CHIP 6800P	AB
C	717	87-010-188-080	CAP, CHIP 6800P	AB
C	711	87-010-197-080	CAP, CHIP 0.01 DM	AB
C	712	87-010-197-080	CAP, CHIP 0.01 DM	AB
C	713	87-010-787-080	CAP, U 0.022-25	AB
C	714	87-010-787-080	CAP, U 0.022-25	AB
C	710	87-010-956-080	CHIP-CAP, S 0.068-25B	AB
C	720	87-010-178-080	CHIP CAP 1000P	AB
C	721	87-010-182-080	C-CAP, S 2200P-50 B	AB
C	722	87-010-182-080	C-CAP, S 2200P-50 B	AB
C	723	87-010-544-080	CAP, ELECT 0.1-50V	AB
C	724	87-010-544-080	CAP, ELECT 0.1-50V	AB
C	731	87-010-112-080	CAP, ELECT 100-16V	AB
C	738	87-010-196-080	CHIP CAPACITOR 0.1-25	AB
C	735	87-010-322-080	C-CAP, S 100P-50 CH	AB
C	736	87-010-322-080	C-CAP, S 100P-50 CH	AB
C	737	87-010-322-080	C-CAP, S 100P-50 CH	AB

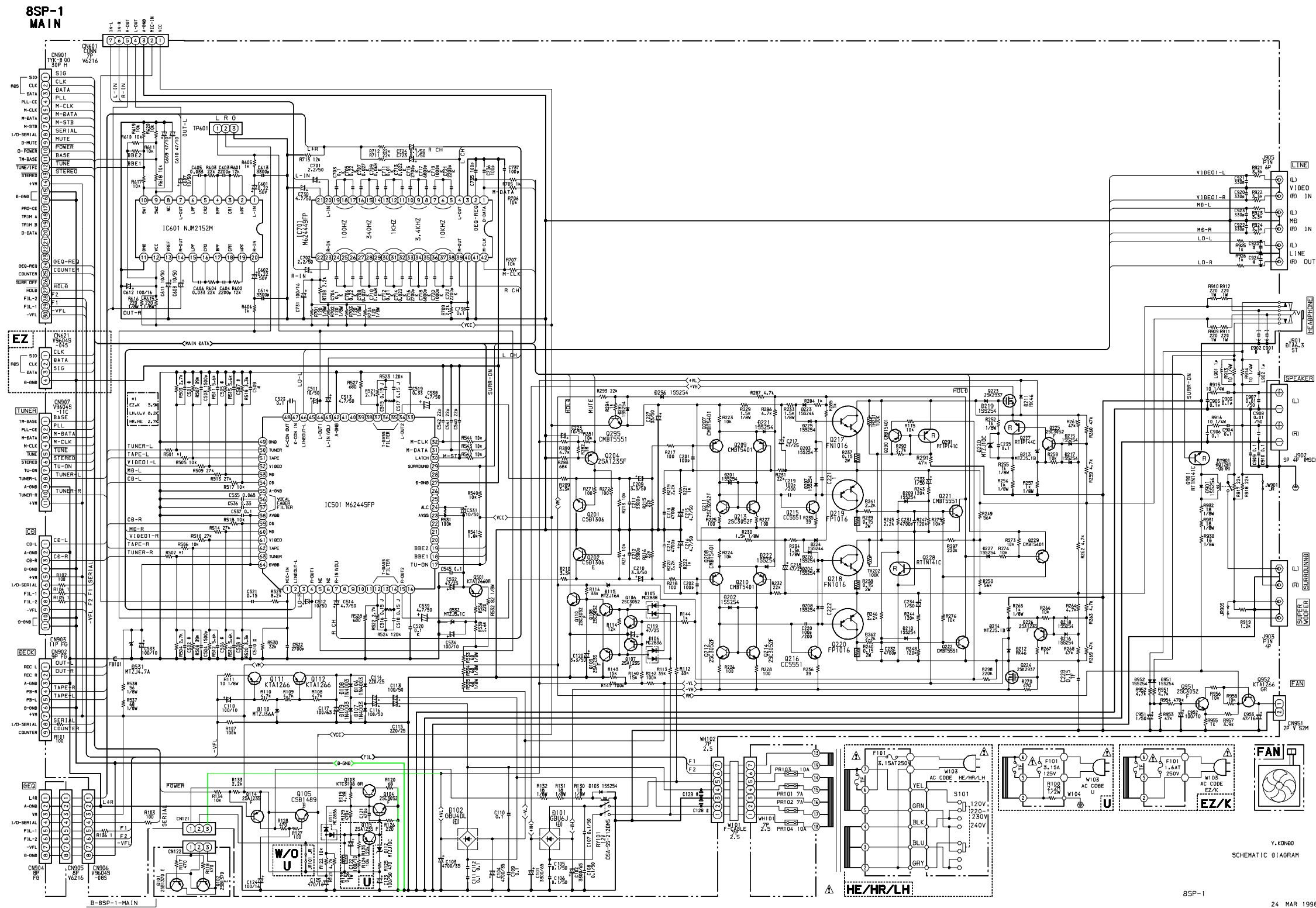
ELECTRICAL MAIN PARTS LIST - 5/6 (MX-NM1000/NH1000)

C	730	87-010-404-080	CAP, ELECT 4.7-50V	AB
IC	701	87-A20-869-040	C-IC, M62449FP	AB
C	701	87-010-260-080	CAP, ELECT 47-25V	AB
C	702	87-010-404-080	CAP, ELECT 4.7-50V	AB
C	709	87-012-195-080	C-CAP, U 100P-50CH	AB
C	704	87-012-286-080	CAP, U 0.01-25	AB
C	703	87-012-286-080	CAP, U 0.01-25	AB
C	712	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB
C	711	87-010-263-080	CAP, ELECT 100-10V	AB
C	715	87-010-322-080	C-CAP, S 100P-50 CH	..
C	715	87-012-195-080	C-CAP, U 100P-50CH	..
C	714	87-012-286-080	CAP, U 0.01-25	AB
C	719	87-012-286-080	CAP, U 0.01-25	AB
C	717	87-012-286-080	CAP, U 0.01-25	AB
C	713	87-012-286-080	CAP, U 0.01-25	AB
C	727	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB
C	728	87-010-248-080	CAP, ELECT 220-10V	AB
C	721	87-012-176-080	CAP, 15P	AB
C	722	87-012-176-080	CAP, 15P	AB
C	720	87-012-195-080	C-CAP, U 100P-50CH	..
C	725	87-012-274-080	CHIP CAP, U 1000P-50B	AB
C	723	87-012-274-080	CHIP CAP, U 1000P-50B	AB
CN	601	87-099-028-010	CONN, 11P, 6216 H	AB
D	710	87-A40-470-080	DIODE, 1SS254	..
D	721	87-A40-234-080	ZENER, MTZJ5.6A	AB
IC	721	86-NFZ-655-010	IC, LC72131D(Z)	AB
X	711	87-A30-196-080	TR, 2SC4115SRS	AB
C	721	87-A70-061-010	VIB, XTAL 4.500MHZ CSA-309	AB
C	758	87-012-167-080	C-CAP, U 5P-50 CH	AB
C	757	87-012-188-080	C-CAP, U 47P-50 CH	AB
C	755	87-012-286-080	CAP, U 0.01-25	AB
C	756	87-012-286-080	CAP, U 0.01-25	AB
C	761	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB
C	769	87-010-260-080	CAP, ELECT 47-25V	..
C	769	87-010-408-080	CAP, ELECT 47-50V	AB
C	763	87-010-757-080	C-CAP, U 0.047-25F	AB
C	766	87-012-286-080	CAP, U 0.01-25	AB
C	765	87-012-286-080	CAP, U 0.01-25	AB
C	764	87-012-337-080	C-CAP, U 56P-50 CH	AB
C	773	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB
C	774	87-010-263-080	CAP, ELECT 100-10V	AB
C	771	87-010-383-080	CAP, ELECT 33-25V	AB
C	777	87-010-400-080	CAP, ELECT 0.47-50V	AB
C	779	87-010-401-080	CAP, ELECT 1-50V	AB
C	778	87-010-401-080	CAP, ELECT 1-50V	AB
C	775	87-010-404-080	CAP, ELECT 4.7-50V	AB
C	771	87-010-407-080	CAP, ELECT 33-50V	..
C	772	87-010-757-080	C-CAP, U 0.047-25F	AB
C	770	87-010-829-080	CAP, U 0.047-16	AB
C	776	87-012-286-080	CAP, U 0.01-25	AB
C	780	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB
C	782	87-010-405-080	CAP, ELECT 10-50V	AB
C	781	87-010-405-080	CAP, ELECT 10-50V	AB
C	789	87-012-275-080	C-CAP, U 1200P-50 B	AB
C	787	87-012-280-080	CAP, U 3300P-50	AB
C	788	87-012-280-080	CAP, U 3300P-50	AB
C	784	87-012-286-080	CAP, U 0.01-25	AB
C	783	87-012-286-080	CAP, U 0.01-25	AB
C	796	87-010-403-080	CAP, ELECT 3.3-50V	AB
C	791	87-010-405-080	CAP, ELECT 10-50V	AB
C	794	87-010-406-080	CAP, ELECT 22-50	AB
C	795	87-010-596-080	CAP, S 0.047-16	AB
C	799	87-010-757-080	C-CAP, U 0.047-25F	AB
C	793	87-012-273-080	C-CAP, U 820P-50 B	AB
C	790	87-012-275-080	C-CAP, U 1200P-50 B	AB
C	797	87-012-276-080	CAP, CHIP SS 1500 PBK	..
C	798	87-012-276-080	CAP, CHIP SS 1500 PBK	..
C	798	87-012-278-080	C-CAP, U 2200P-50 B	AB
C	797	87-012-278-080	C-CAP, U 2200P-50 B	AB
D	773	87-A40-470-080	DIODE, 1SS254	AB
D	771	87-A40-470-080	DIODE, 1SS254	..
IC	771	87-A20-438-010	IC, LA1837	AB
IC	771	87-A20-913-010	IC, LA1837NL	..
L	771	87-A50-266-010	COIL, FM DET-2N(TOK)	AB
L	772	87-A90-052-010	FLTR, CFMT-450A(TOK)	..
L	772	87-A90-733-010	FLTR, PCFAZH-450 (TOK)	AB
L	781	87-005-847-080	COIL, 2.2UH(CECS)	AB
L	792	87-A50-027-010	COIL, 1 POLE MPX(TOK)	..
L	791	87-A50-027-010	COIL, 1 POLE MPX(TOK)	..
L	791	87-A50-209-010	COIL, 1POLE MPX(MIT)	AB
L	792	87-A50-209-010	COIL, 1POLE MPX(MIT)	AB
X	771	87-030-354-010	VIB, CF Bfu 450C	..
0801	87-033-241-010	TERMINAL, ANT AJ-2039	..	
C	813	87-010-197-080	CAP, CHIP 0.01 DM	AB
C	819	87-010-197-080	CAP, CHIP 0.01 DM	AB
C	818	87-010-197-080	CAP, CHIP 0.01 DM	..
C	812	87-012-286-080	CAP, U 0.01-25	AB
C	814	87-012-286-080	CAP, U 0.01-25	AB
C	828	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB
C	829	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB
C	820	87-010-260-080	CAP, ELECT 47-25V	..
C	820	87-010-408-080	CAP, ELECT 47-50V	AB
C	821	87-012-286-080	CAP, U 0.01-25	AB
C	823	87-012-286-080	CAP, U 0.01-25	AB
C	822	87-012-286-080	CAP, U 0.01-25	AB
C	944	87-010-575-080	C-CAP, S 560P-50 UJ	..

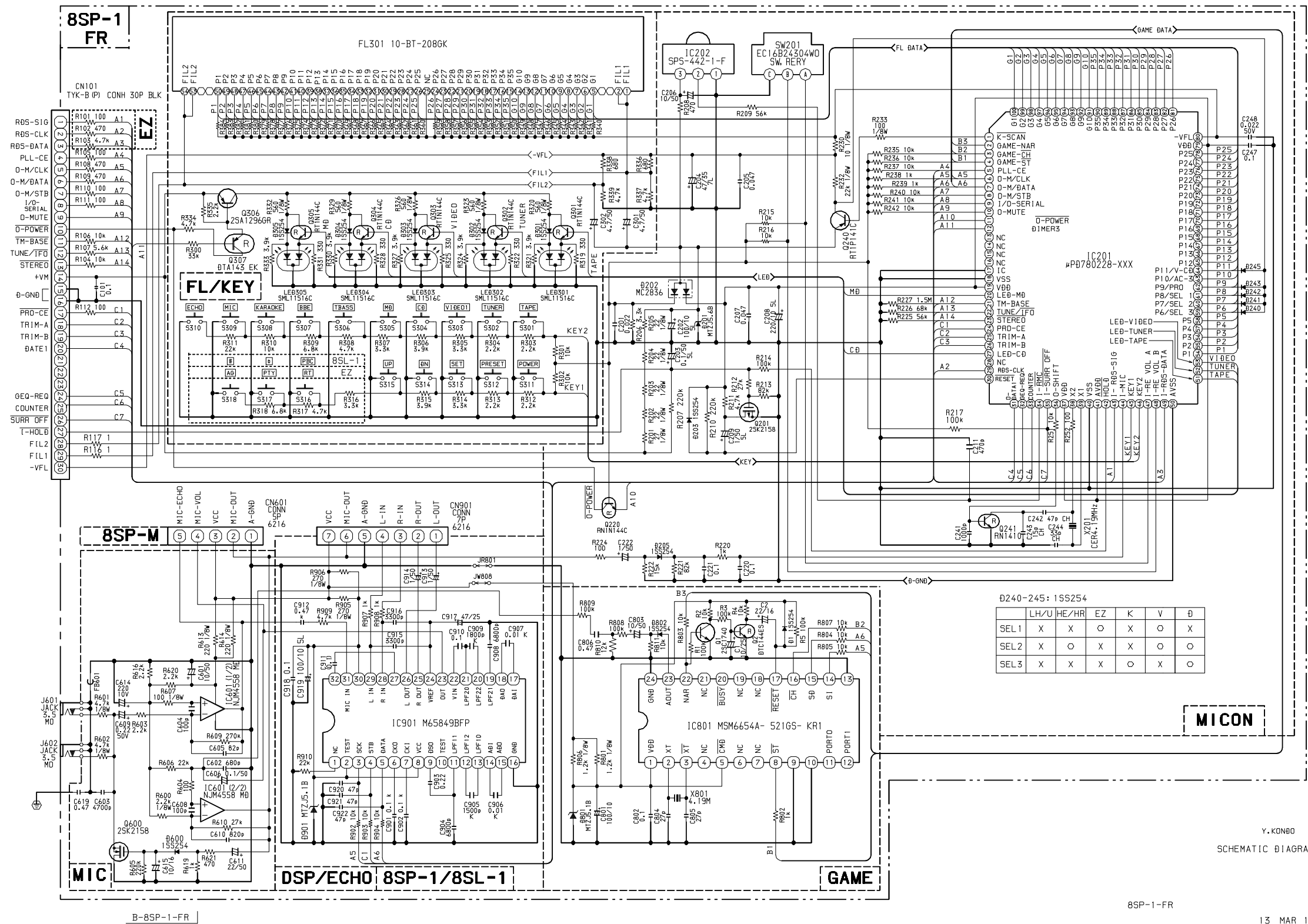
ELECTRICAL MAIN PARTS LIST - 6/6 (MX-NM1000/NH1000)

C	942	87-012-172-080	CAPACITOR CHIP U 10P CH	.....
C	941	87-012-180-080	C-CAP, U 22P-50 CH	.....
C	943	87-012-286-080	CAP, U 0.01-25	.....
C	940	87-012-286-080	CAP, U 0.01-25	.....
C	945	87-012-286-080	CAP, U 0.01-25	.....
C	947	87-012-286-080	CAP, U 0.01-25	.....
C	949	87-A10-039-080	C-CAP, U 470P-50 J CH	.....
C	959	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB.....
C	956	87-010-263-080	CAP, ELECT 100-10V	.....
C	957	87-010-311-080	CAP, 12P	.....
C	954	87-010-400-080	CAP, ELECT 0.47-50V	.....
C	953	87-012-286-080	CAP, U 0.01-25	.....
C	952	87-012-286-080	CAP, U 0.01-25	.....
C	958	87-012-286-080	CAP, U 0.01-25	.....
C	950	87-A10-913-080	C-CAP, 4700P-50 J CH	.....
C	960	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB.....
C	962	87-010-401-080	CAP, ELECT 1-50V	.....
C	961	87-012-170-080	C-CAP, U 8P-50 CH	AB.....
CF	802	82-785-747-010	CF MS2 GHY R	.....
CF	802	87-008-261-010	FILTER, SFE10.7MA5-A	AB.....
CF	801	87-008-261-010	FILTER, SFE10.7MA5-A	AB.....
CF	801	87-008-423-010	CERAMIC FILTER, SFE10.7	.....
D	942	87-A40-270-080	C-DIODE, MC2838	.....
D	941	87-A40-470-080	DIODE, 1SS254	.....
D	944	87-A40-470-080	DIODE, 1SS254	.....
FFE	801	A8-6ZA-191-130	6ZA-1 FEENM	.....
FFE	801	A8-6ZA-195-130	6ZA-1 YFEENM	.....
FFE	801	A8-8ZA-190-030	8ZA-1 FEUNM	.....
FFE	801	A8-8ZA-191-030	8ZA-1 YFEUNM	AB.....
J	801	87-A60-657-010	TERMINAL, 4P HSP-154V5-02	AB.....
L	832	87-005-847-080	COIL, 2.2UH(CECS)	AB.....
L	943	87-005-372-080	COIL S 1MHM	.....
L	942	87-A50-019-010	COIL, OSC LW(COI)	.....
L	941	87-A50-020-010	COIL, ANT LW(COI)	.....
L	945	87-A50-022-010	COIL, ANT SW(COI)	.....
L	944	87-A50-159-010	COIL, 10MH K C2B	.....
L	946	87-A50-173-010	COIL, OSC SW-N(COI)	.....
L	983	86-NF4-666-010	AM PACK 3(TOK)	.....
L	981	87-NF4-650-010	COIL, AM PACK 4N(TOK)	AB.....
L	981	87-NF4-651-010	COIL, AM PACK2N(TOM)	.....
Q	807	87-A30-072-080	C-TR, RT1P 144C	.....
Q	806	87-A30-072-080	C-TR, RT1P 144C	AB.....
Q	805	89-327-143-080	TR, 2SC2714 (0.1W)	AB.....
Q	941	87-A30-074-080	C-TR, RT1P 141C	.....
Q	943	87-A30-075-080	C-TR, 2SA1235F	.....
Q	942	87-A30-075-080	C-TR, 2SA1235F	.....
Q	945	87-A30-076-080	C-TR, 2SC3052F	.....
Q	944	87-A30-076-080	C-TR, 2SC3052F	.....
Q	949	87-A30-076-080	C-TR, 2SC3052F	.....
Q	948	87-A30-086-070	C-TR, CSD1306E	.....
Q	946	87-A30-086-070	C-TR, CSD1306E	.....
Q	947	89-503-602-080	C-FET, 2SK360E	.....
Q	951	87-A30-074-080	C-TR, RT1P 141C	.....
Q	952	87-A30-086-070	C-TR, CSD1306E	.....
Q	950	87-A30-086-070	C-TR, CSD1306E	.....
TC	943	87-011-164-010	CAPACITOR, TRIMMER 30P	.....
TC	942	87-011-164-010	CAPACITOR, TRIMMER 30P	.....
TC	941	87-011-173-010	CERAMIC TRIMMER 20P	.....
C	952	87-010-263-080	CAP, ELECT 100-10V	AB.....
C	953	87-010-380-080	CAP, ELECT 47-16V	AB.....
C	951	87-010-401-080	CAP, ELECT 1-50V	AB.....
D	952	87-A40-470-080	DIODE, 1SS254	AB.....
D	951	87-A40-470-080	DIODE, 1SS254	AB.....
Q	952	87-026-609-080	TR, KTA1266GR	AB.....
Q	951	87-A30-076-080	C-TR, 2SC3052F	AB.....

SCHEMATIC DIAGRAM – 1 (MX-NM1000/NH1000: MAIN)



SCHEMATIC DIAGRAM – 2 (MX-NM1000/NH1000: FRONT)

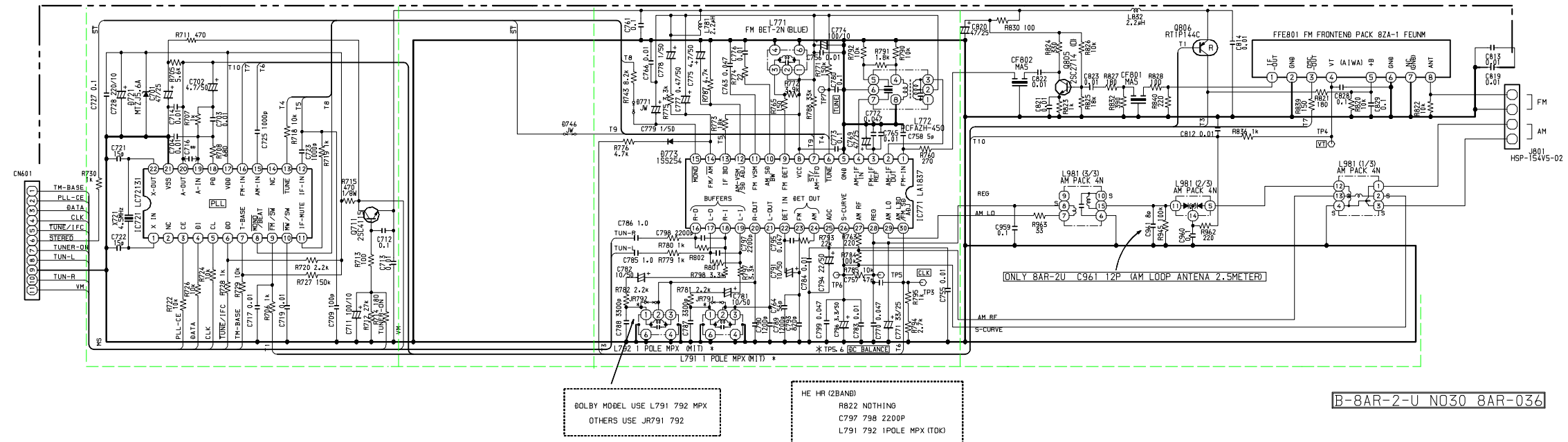


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SCHEMATIC DIAGRAM

8SP-1-FR

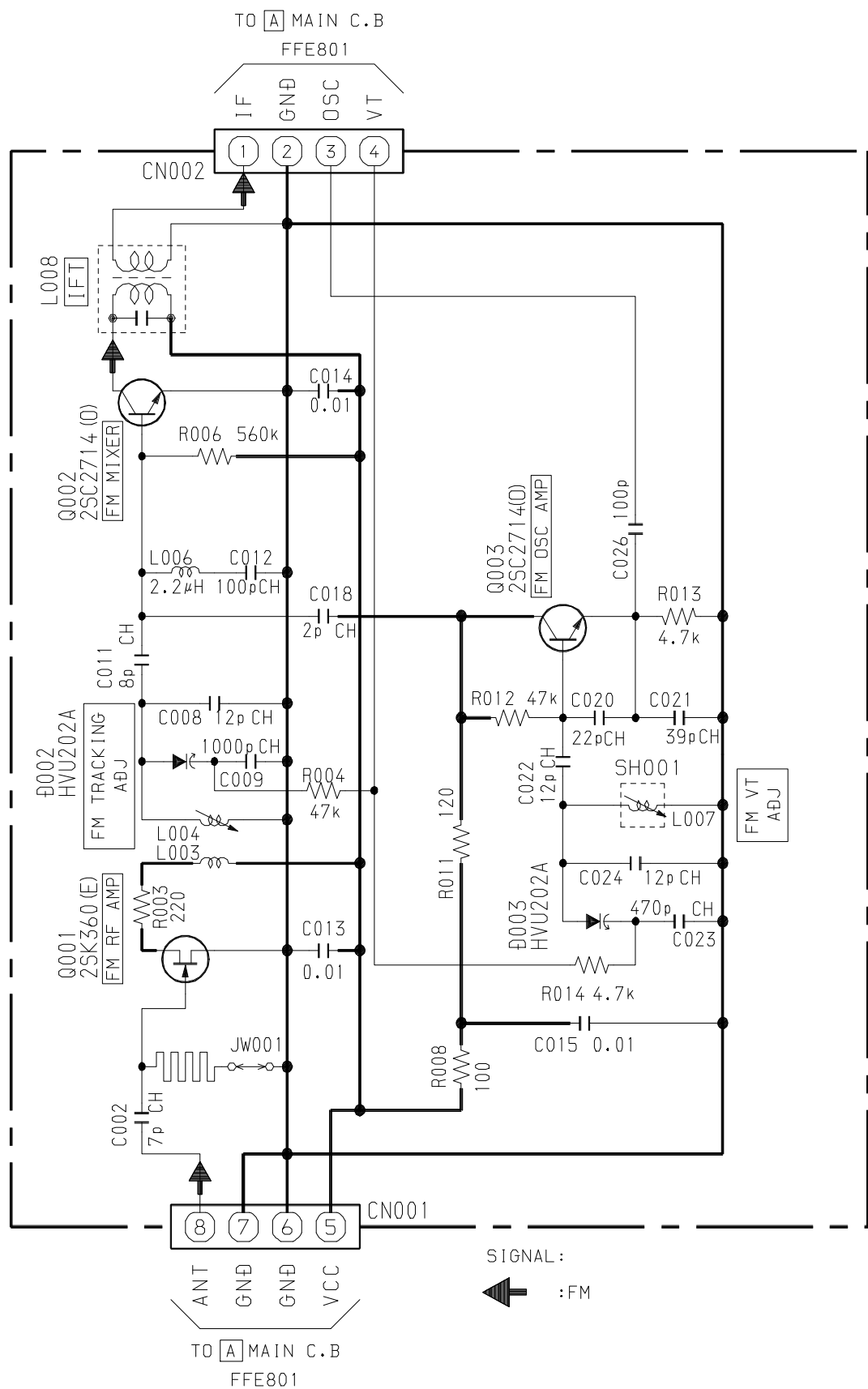
13 MAR 1998

SCHEMATIC DIAGRAM – 3 (MX-NM1000/NH1000: TUNER)



B-8AR-2-U

SCHEMATIC DIAGRAM – 4 (MX-NM1000/NH1000: TUNER FRONT END)



MECHANICAL PART LIST - 1 (MX-NM1000/NH1000)

NOTE: The characters in the suffix column indicate the part usage.

U XX.....A.....
LH XX.....B.....

REF.NO	PARTS NO.	DESCRIPTION	SUFFIX	
	87-B00-002-010	BADGE, AIWA 30 ABS SIL	AB.....	
	88-SP1-001-010	CABI, FR	.B.....	
	88-SP1-002-010	CABI, STEEL	AB.....	
	88-SP1-003-010	PANEL, REAR USNM	.....	
	88-SP1-017-010	CABI, FR U	A.....	
	88-SP1-021-010	PANEL, REAR HEJSNM	.....	
	88-SP1-023-010	PANEL, REAR LHSNM	.....	
	88-SP1-024-010	PANEL, REAR KSNM	.....	
	88-SP1-030-010	PANEL, REAR USN	A.....	
	88-SP1-033-010	PANEL, REAR LHSN	.B.....	
	88-SP1-034-010	PANEL, REAR KSN	.....	
	88-SU1-014-010	RING, FOOT	AB.....	
	88-SP1-005-010	KEY, FUN	AB.....	
	88-SP1-006-010	KEY, POWER	AB.....	
	88-SP1-007-010	KEY, BBE	AB.....	
	88-SP1-008-010	KEY, KARAOKE	AB.....	
	88-SP1-010-010	KNOB, RTRY VOL	AB.....	
	88-SP1-011-010	RING, VOL	AB.....	
	88-SP1-012-010	KEY, TUNING	AB.....	
	88-SP1-014-010	REFLECTOR, FUN	AB.....	
	88-SP1-015-010	KEY, ASSY FUN	AB.....	
	88-SP1-016-010	LENS, SENSOR	.....	
	88-SP1-004-010	WINDOW, DISPLAY	AB.....	
	88-SP1-031-010	LBL, CPA	.....	
	87-085-213-010	FOOT, H12.5	AB.....	
	88-AR1-203-010	HLDR, TU	AB.....	
	88-SP1-202-010	HT-SINK, ASSY	AB.....	
	88-SP1-208-010	COVER, FAN	AB.....	
	87-067-641-010	UTT2+3-8(W/O SLOT)BL	AB.....	
	87-067-688-010	BVTT+3-6	AB.....	
	87-067-703-010	TAPPING SCREW, BVT2+3-10	AB.....	
	87-067-822-010	BVT2+3-20 W/O SLOT	AB.....	
	87-078-019-010	S-SCREW, IT+4-6	AB.....	
	87-591-094-410	TAPPING SCREW, QIT+3-6	AB.....	
	87-591-095-410	TAPPING SCREW, QIT+3-8 (GLD)	AB.....	
	87-085-185-010	BUSHING, AC CORD (E)	.B.....	
	87-085-189-010	BUSHING, CORD (U)	A.....	
	88-907-281-110	FF-CABLE, 7P 1.25	AB.....	
	88-908-071-110	FF-CABLE, 8P 1.25 70MM	AB.....	
	88-911-121-110	FF-CABLE, 11P 1.25	AB.....	
0103	87-050-079-010	AC-CORD ASSY, E	.B.....	
0103	87-A80-007-110	AC CORD ASSY, K BLK	.....	
0101	87-A90-796-010	FAN, F614R-12MC-15-300MM	AB.....	
F	101	87-035-364-010	FUSE, 1.6A 250V	
F	101	87-035-367-010	FUSE, 3.15A 250V	.B.....
F	101	87-035-488-010	FUSE, 3.15A 125V D UL	A.....
PT	101	88-SP1-601-010	PT, U	A.....
PT	101	88-SP1-602-010	PT, HE	
PT	101	88-SP1-603-010	PT, LH	.B.....
PT	101	88-SP1-606-010	PT, K	
W	103	87-050-053-010	AC CORD ASSY, U-2	A.....
W	0	88-SP1-625-010	WIRE ASSY, 1P (GRN)	.B.....
W	0	88-SP1-626-010	WIRE ASSY, 1P (YEL)	.B.....
W	0	88-SP1-627-010	WIRE ASSY, 1P (BLU)	.B.....
W	0	88-SP1-628-010	WIRE ASSY, 1P (BLK)	.B.....
W	0	88-SP1-629-010	WIRE ASSY, 1P (WHT)	.B.....
W	101	85-NF5-628-010	F-CABLE 7P-2.5	AB.....
		88-SP1-211-010	GUIDE, FUN	AB.....
		88-SX1-203-010	GUIDE, FL	AB.....

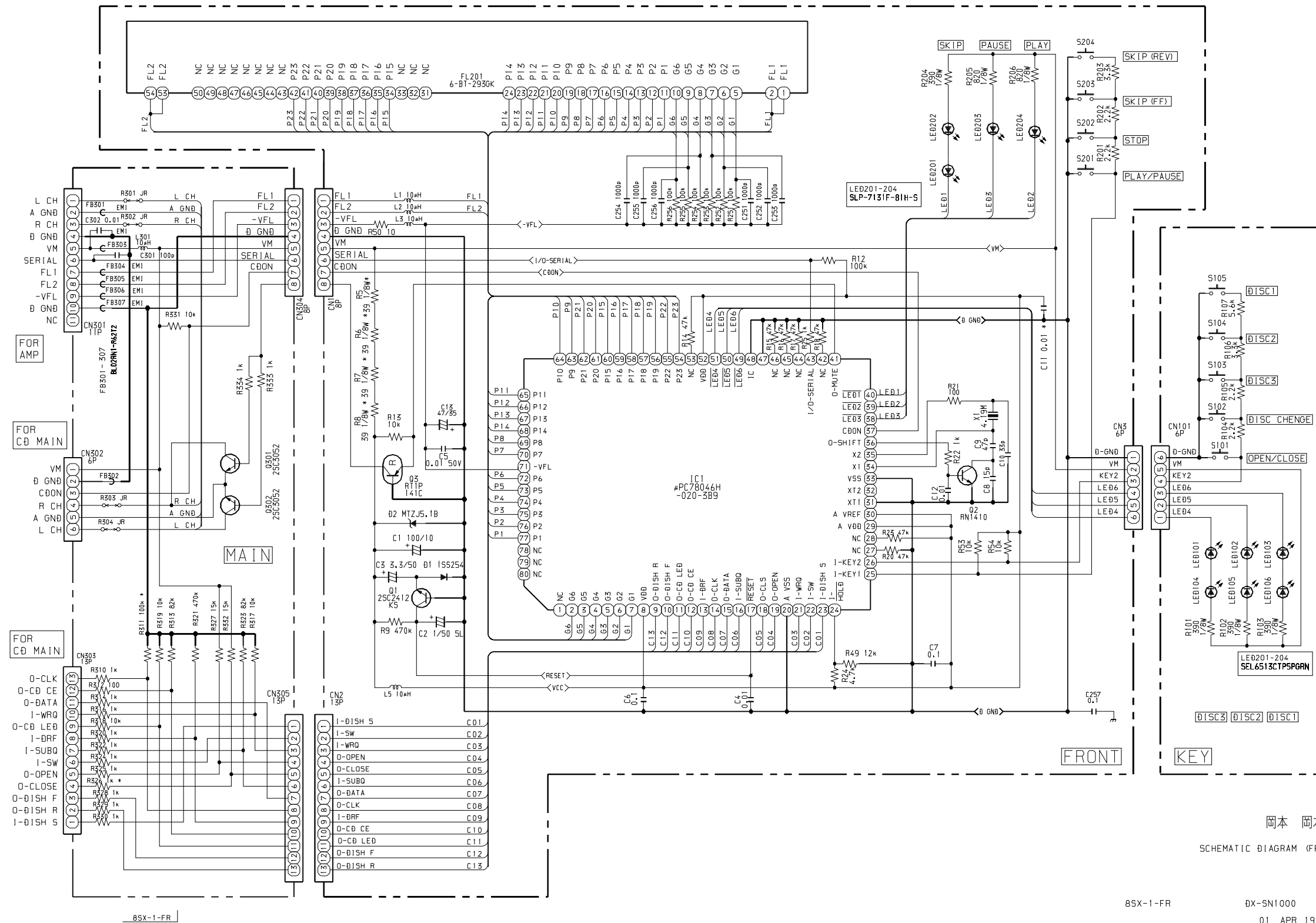
ELECTRICAL MAIN PARTS LIST - 1 (DX-NM1000/NH1000)

NOTE: The characters in the suffix column indicate the part usage.

YU XX.....A.....
 YL XX.....B.....

REF.NO	PARTS NO.	DESCRIPTION	SUFFIX
	88-SX1-202-010	GUIDE, LED OPE	AB.....
CN 101	87-099-194-010	CONN, 6P 6216V	AB.....
LED 105	87-A40-521-040	LED, SEL6513C TP5 PGRN	AB.....
LED 106	87-A40-521-040	LED, SEL6513C TP5 PGRN	AB.....
LED 101	87-A40-521-040	LED, SEL6513C TP5 PGRN	AB.....
LED 104	87-A40-521-040	LED, SEL6513C TP5 PGRN	AB.....
LED 103	87-A40-521-040	LED, SEL6513C TP5 PGRN	AB.....
LED 102	87-A40-521-040	LED, SEL6513C TP5 PGRN	AB.....
S 102	87-A90-809-080	SW, TACT TSTA-2	AB.....
S 104	87-A90-809-080	SW, TACT TSTA-2	AB.....
S 103	87-A90-809-080	SW, TACT TSTA-2	AB.....
S 101	87-A90-809-080	SW, TACT TSTA-2	AB.....
S 105	87-A90-809-080	SW, TACT TSTA-2	AB.....
	88-SX1-203-010	GUIDE, FL	AB.....
	88-SX1-610-010	CORD, FG 11P	AB.....
C 5	87-010-190-080	S CHIP F 0.01	AB.....
C 6	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB.....
C 7	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB.....
C 4	87-010-197-080	CAP, CHIP 0.01 DM	AB.....
C 1	87-010-263-040	CAP, E 100-10	AB.....
C 8	87-010-312-080	C-CAP, S 15P-50 CH	AB.....
C 9	87-010-320-080	CHIP CAP 68P	AB.....
C 2	87-010-494-040	CAP, E 1-50 GAS	AB.....
C 3	87-010-496-040	CAP, E 3.3-50 GAS	AB.....
C 12	87-010-197-080	CAP, CHIP 0.01 DM	AB.....
C 13	87-010-246-040	CAP, E 47-35 SME	AB.....
C 10	87-010-316-080	C-CAP, S 33P-50 CH	AB.....
C 11	87-018-134-080	CAPACITOR, TC-U 0.01-16	AB.....
C 251	87-010-178-080	CHIP CAP 1000P	AB.....
C 255	87-010-178-080	CHIP CAP 1000P	AB.....
C 256	87-010-178-080	CHIP CAP 1000P	AB.....
C 253	87-010-178-080	CHIP CAP 1000P	AB.....
C 252	87-010-178-080	CHIP CAP 1000P	AB.....
C 254	87-010-178-080	CHIP CAP 1000P	AB.....
C 257	87-010-196-080	CHIP CAPACITOR, 0.1-25	AB.....
CN 3	87-099-194-010	CONN, 6P 6216V	AB.....
CN 303	87-099-015-010	CONN, 13P 6216V	AB.....
CN 302	87-099-194-010	CONN, 6P 6216V	AB.....
D 2	87-070-136-080	ZENER, MTZJ5.1B	AB.....
D 1	87-A40-470-080	DIODE, 1SS254	AB.....
FB 304	87-008-474-080	F-BEAD, EMI BL02RN1	AB.....
FB 306	87-008-474-080	F-BEAD, EMI BL02RN1	AB.....
FB 307	87-008-474-080	F-BEAD, EMI BL02RN1	AB.....
FB 303	87-008-474-080	F-BEAD, EMI BL02RN1	AB.....
FB 305	87-008-474-080	F-BEAD, EMI BL02RN1	AB.....
FB 302	87-008-474-080	F-BEAD, EMI BL02RN1	AB.....
FB 301	87-008-474-080	F-BEAD, EMI BL02RN1	AB.....
FL 201	88-SX1-609-010	FL, 6-BT-293GK	AB.....
IC 1	88-SX1-606-010	IC, UPD78045H-XXXX	AB.....
L 3	87-005-152-080	COIL, 10UH	AB.....
L 2	87-005-152-080	COIL, 10UH	AB.....
L 1	87-005-152-080	COIL, 10UH	AB.....
L 5	87-005-152-080	COIL, 10UH	AB.....
L 301	87-005-152-080	COIL, 10UH	AB.....
LED 203	87-A40-446-040	LED, SLP-7131F-81H-S-T1 P-GRN	AB.....
LED 202	87-A40-446-040	LED, SLP-7131F-81H-S-T1 P-GRN	AB.....
LED 201	87-A40-446-040	LED, SLP-7131F-81H-S-T1 P-GRN	AB.....
LED 204	87-A40-446-040	LED, SLP-7131F-81H-S-T1 P-GRN	AB.....
Q 2	87-026-263-080	C-TR, RN1410	AB.....
Q 3	87-A30-074-080	C-TR, RT1P 141C	AB.....
Q 1	89-324-123-080	C-TR, 2SC2412K S	AB.....
Q 302	87-A30-076-080	C-TR, 2SC3052F	AB.....
Q 301	87-A30-076-080	C-TR, 2SC3052F	AB.....
S 201	87-A90-809-080	SW, TACT TSTA-2	AB.....
S 202	87-A90-809-080	SW, TACT TSTA-2	AB.....
S 203	87-A90-809-080	SW, TACT TSTA-2	AB.....
S 204	87-A90-809-080	SW, TACT TSTA-2	AB.....
X 1	87-A70-075-080	VIB, CER 4.19MHZ CRHF	AB.....

SCHEMATIC DIAGRAM – 1 (DX-NM1000/NH1000: MAIN / FRONT / KEY)



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SCHEMATIC DIAGRAM (FR)

8SX-1-FR

DX-SN1 000

01 APR 1998

MECHANICAL PARTS LIST - 1 (DX-NM1000/NH1000)

NOTE: The characters in the suffix column indicate the part usage.

YU XX.....A.....
 YL XX.....B.....

REF.NO	PARTS NO.	DESCRIPTION	SUFFIX
	87-B00-002-010	BADGE, AIWA 30 ABS SIL	AB.....
	88-SU1-014-010	RING, FOOT	AB.....
	88-SX1-001-010	CABI, FR	.B.....
	88-SX1-002-010	CABI, STEEL	AB.....
	88-SX1-016-010	CABI, REAR YSNM	.....
	88-SX1-017-010	CABI, REAR YJSNM	.....
	88-SX1-018-010	CABI, REAR YUSNM	.....
	88-SX1-019-010	CABI, FR U	A.....
	88-SX1-020-010	CABI, REAR YLSNM	.....
	88-SX1-021-010	CABI, REAR YS	.....
	88-SX1-022-010	CABI, REAR YLSN	.B.....
	88-SX1-023-010	CABI, REAR YUSN	A.....
	88-SX1-024-010	CABI, REAR YSN	.....
	88-SX1-005-010	KEY, OPEN	AB.....
	88-SX1-006-010	KEY, OPE	AB.....
	88-SX1-007-010	BTN, DISC 1	AB.....
	88-SX1-008-010	BTN, DISC 2	AB.....
	88-SX1-009-010	BTN, DISC 3	AB.....
	88-SX1-010-010	KEY, ASSY DISC	AB.....
	88-SX1-012-010	REFLECTOR, PLAY	AB.....
	88-SX1-013-010	REFLECTOR, FF	AB.....
	88-SX1-014-010	REFLECTOR, REW	AB.....
	88-SX1-015-010	KEY, ASSY OPE	AB.....
	88-SX1-201-010	GUIDE, LED DISC	AB.....
	86-NF6-007-010	WINDOW, TOP	.B.....
	86-NF6-101-010	WINDOW, TOP UL	A.....
	88-SX1-003-010	PANEL, TRAY	AB.....
	88-SX1-004-010	WINDOW, DISPLAY	AB.....
	84-ZG1-245-210	CAP, OPTICAL	AB.....
	87-067-703-010	TAPPING SCREW, BVT2+3-10	AB.....
	87-591-094-410	TAPPING SCREW, QIT+3-6	AB.....
	88-906-201-110	FF-CABLE, 6P 1.25	AB.....
	88-906-481-110	FF-CABLE, 6P 1.25 480MM	AB.....
	88-913-121-110	FF-CABLE, P1.25	AB.....
	88-SX1-202-010	GUIDE, LED OPE	AB.....
	88-SX1-203-010	GUIDE, FL	AB.....
	88-SX1-610-010	CORD, FG 11P	AB.....

0003
 W 2
 W 1

ELECTRICAL MAIN PARTS LIST - 1/2 (FX-NM1000/NH1000)

NOTE: The characters in the suffix column indicate the part usage.

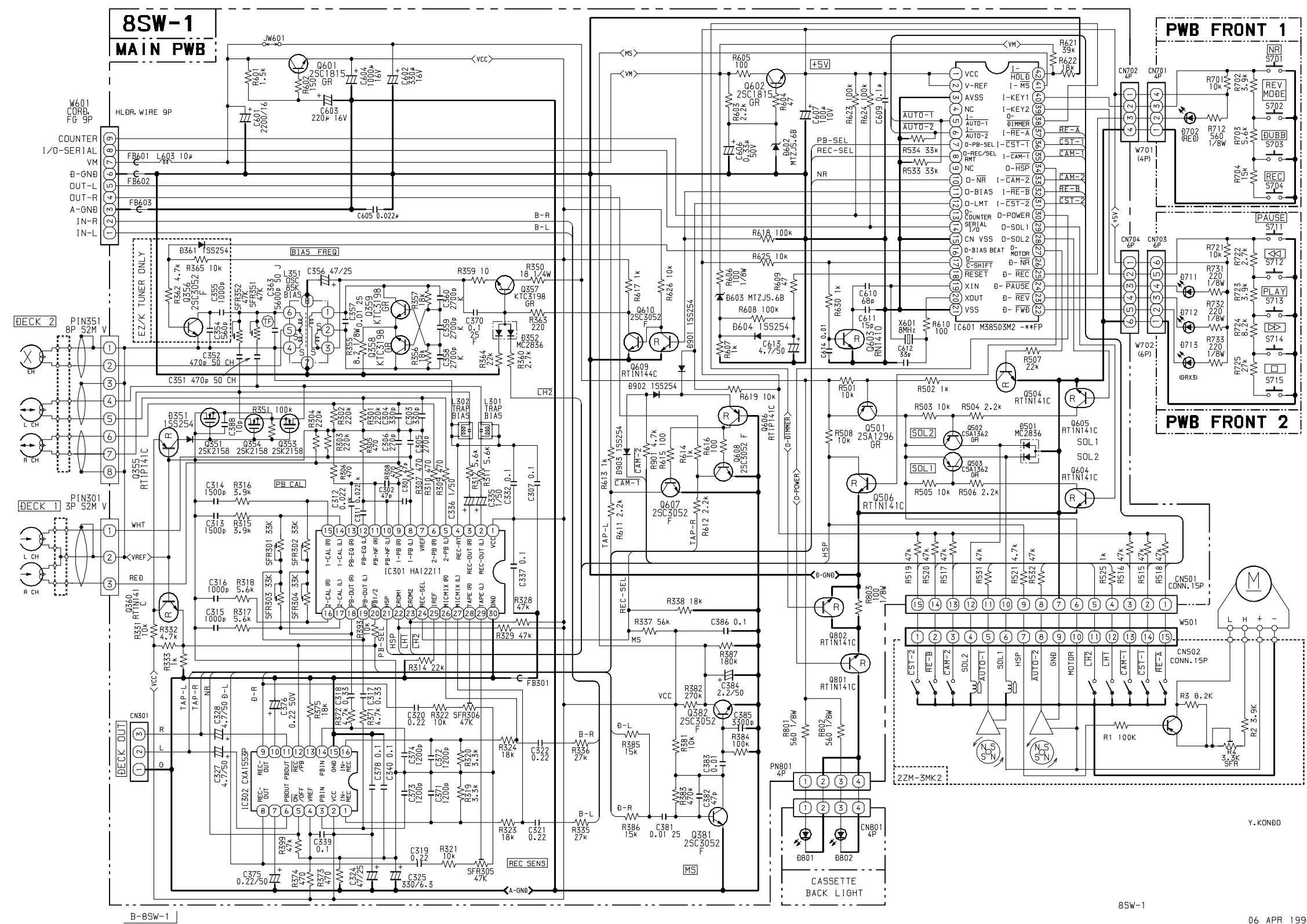
MUSN XX.....A.....
 SLSN XX.....B.....

REF.NO	PARTS NO.	DESCRIPTION	SUFFIX
	88-SW1-201-010	GUIDE, LED OPE	AB.....
D	702	87-002-787-080 LED, SEL 6215S RED	AB.....
D	712	87-070-197-080 LED, SLP7118C-51-S-T1	AB.....
D	711	87-070-197-080 LED, SLP7118C-51-S-T1	AB.....
D	713	87-070-197-080 LED, SLP7118C-51-S-T1	AB.....
S	701	87-A90-809-080 SW, TACT TSTA-2	AB.....
S	704	87-A90-809-080 SW, TACT TSTA-2	AB.....
S	703	87-A90-809-080 SW, TACT TSTA-2	AB.....
S	702	87-A90-809-080 SW, TACT TSTA-2	AB.....
S	714	87-A90-809-080 SW, TACT TSTA-2	AB.....
S	711	87-A90-809-080 SW, TACT TSTA-2	AB.....
S	715	87-A90-809-080 SW, TACT TSTA-2	AB.....
S	712	87-A90-809-080 SW, TACT TSTA-2	AB.....
S	713	87-A90-809-080 SW, TACT TSTA-2	AB.....
C	603	87-010-101-080 CAP, ELECT 220-16	AB.....
C	609	87-010-196-080 CHIP CAPACITOR, 0.1-25	AB.....
C	605	87-010-198-080 CAP, CHIP 0.022	AB.....
C	604	87-010-237-080 CAP, ELECT 1000-16V	AB.....
C	607	87-010-263-080 CAP, ELECT 100-10V	AB.....
C	602	87-010-381-080 CAP, ELECT 330-16V	AB.....
C	606	87-010-546-080 CAP, ELECT 0.33-50V	AB.....
C	601	87-015-997-010 CAP, ELECT 2200UF-16V	AB.....
C	614	87-010-197-080 CAP, CHIP 0.01 DM	AB.....
C	611	87-010-312-080 C-CAP, S 15P-50 CH	AB.....
C	612	87-010-316-080 C-CAP, S 33P-50 CH	AB.....
C	610	87-010-320-080 CHIP CAP 68P	AB.....
C	613	87-010-404-080 CAP, ELECT 4.7-50V	AB.....
D	603	87-017-931-080 ZENER, MTZJ5.6B	AB.....
D	602	87-017-931-080 ZENER, MTZJ5.6B	AB.....
D	604	87-A40-470-080 DIODE, 1SS254	AB.....
FB	301	87-008-372-080 FILTER, EMI BL OIRNI	AB.....
FB	603	87-008-372-080 FILTER, EMI BL OIRNI	AB.....
FB	602	87-008-372-080 FILTER, EMI BL OIRNI	AB.....
FB	601	87-008-372-080 FILTER, EMI BL OIRNI	AB.....
IC	601	88-SW1-608-010 IC, M38503M2	AB.....
L	601	87-005-130-080 COIL, 10UH	AB.....
L	603	87-005-130-080 COIL, 10UH	AB.....
Q	603	87-026-263-080 C-TR, RN1410	AB.....
Q	609	87-A30-071-080 C-TR, RT1N 144C	AB.....
Q	605	87-A30-073-080 C-TR, RT1N 141C	AB.....
Q	604	87-A30-073-080 C-TR, RT1N 141C	AB.....
Q	606	87-A30-074-080 C-TR, RT1P 141C	AB.....
Q	608	87-A30-076-080 C-TR, 2SC3052F	AB.....
Q	607	87-A30-076-080 C-TR, 2SC3052F	AB.....
Q	602	89-318-155-080 TR, 2SC1815 (0.4W)	AB.....
Q	601	89-318-155-080 TR, 2SC1815 (0.4W)	AB.....
Q	610	87-A30-076-080 C-TR, 2SC3052F	AB.....
W	601	88-SW1-607-010 CORD, FG9P	AB.....
X	601	87-A70-120-080 VIB, 8.00MHZ	AB.....
C	307	87-010-196-080 CHIP CAPACITOR, 0.1-25	AB.....
C	302	87-010-318-080 C-CAP, S 47P-50 CH	AB.....
C	301	87-010-318-080 C-CAP, S 47P-50 CH	AB.....
C	306	87-012-145-080 CAP, CHIP S 270P CH	AB.....
C	305	87-012-145-080 CAP, CHIP S 270P CH	AB.....
C	303	87-012-157-080 C-CAP, S 330P-50 CH	AB.....
C	304	87-012-157-080 C-CAP, S 330P-50 CH	AB.....
C	316	87-010-178-080 CHIP CAP 1000P	AB.....
C	315	87-010-178-080 CHIP CAP 1000P	AB.....
C	314	87-010-180-080 C-CER 1500P	AB.....
C	313	87-010-180-080 C-CER 1500P	AB.....
C	311	87-010-198-080 CAP, CHIP 0.022	AB.....
C	312	87-010-198-080 CAP, CHIP 0.022	AB.....
C	319	87-012-141-080 CHIP-CAPACITOR, 0.22-16F	AB.....
C	317	87-012-142-080 CAP, S 0.33-16	AB.....
C	318	87-012-142-080 CAP, S 0.33-16	AB.....
C	324	87-010-260-080 CAP, ELECT 47-25V	AB.....
C	325	87-010-370-080 CAP, E 330-6.3 SME	AB.....
C	328	87-010-404-080 CAP, ELECT 4.7-50V	AB.....
C	327	87-010-404-080 CAP, ELECT 4.7-50V	AB.....
C	322	87-012-141-080 CHIP-CAPACITOR, 0.22-16F	AB.....
C	321	87-012-141-080 CHIP-CAPACITOR, 0.22-16F	AB.....
C	320	87-012-141-080 CHIP-CAPACITOR, 0.22-16F	AB.....
C	339	87-010-196-080 CHIP CAPACITOR, 0.1-25	AB.....
C	337	87-010-196-080 CHIP CAPACITOR, 0.1-25	AB.....
C	332	87-010-196-080 CHIP CAPACITOR, 0.1-25	AB.....
C	335	87-010-401-080 CAP, ELECT 1-50V	AB.....
C	336	87-010-401-080 CAP, ELECT 1-50V	AB.....
C	340	87-010-196-080 CHIP CAPACITOR, 0.1-25	AB.....
C	359	87-010-183-080 C-CAP, S 2700P-50 B	AB.....
C	358	87-010-183-080 C-CAP, S 2700P-50 B	AB.....
C	357	87-010-197-080 CAP, CHIP 0.01 DM	AB.....
C	356	87-010-260-080 CAP, ELECT 47-25V	AB.....
C	351	87-012-140-080 CAP 470P	AB.....
C	352	87-012-140-080 CAP 470P	AB.....
C	360	87-010-183-080 C-CAP, S 2700P-50 B	AB.....

ELECTRICAL MAIN PARTS LIST - 2/2 (FX-NM1000/NH1000)

C	371	87-010-179-080	CAP,CHIP S B1200P	AB.....
C	373	87-010-179-080	CAP,CHIP S B1200P	AB.....
C	372	87-010-179-080	CAP,CHIP S B1200P	AB.....
C	374	87-010-179-080	CAP,CHIP S B1200P	AB.....
C	378	87-010-196-080	CHIP CAPACITOR,0.1-25	AB.....
C	370	87-010-196-080	CHIP CAPACITOR,0.1-25	AB.....
C	376	87-010-545-080	CAP, ELECT 0.22-50V	AB.....
C	375	87-010-545-080	CAP, ELECT 0.22-50V	AB.....
C	388	87-010-154-080	CAP,CHIP 10P	AB.....
C	385	87-010-184-080	CHIP CAPACITOR 3300P(K)	AB.....
C	386	87-010-196-080	CHIP CAPACITOR,0.1-25	AB.....
C	381	87-010-197-080	CAP, CHIP 0.01 DM	AB.....
C	383	87-010-197-080	CAP, CHIP 0.01 DM	AB.....
C	382	87-010-318-080	C-CAP, S 47P-50 CH	AB.....
C	384	87-010-402-080	CAP, ELECT 2.2-50V	AB.....
D	352	87-A40-269-080	C-DIODE, MC2836	AB.....
D	351	87-A40-470-080	DIODE, 1SS254	AB.....
IC	302	87-A20-355-010	IC, CXA1553P	AB.....
IC	301	87-A20-455-010	IC, HA12211	AB.....
L	302	87-A50-049-010	COIL, TRAP 85K(COI)	AB.....
L	301	87-A50-049-010	COIL, TRAP 85K(COI)	AB.....
L	351	87-007-342-010	COIL, OSC 85K BIAS	AB.....
Q	358	87-026-610-080	TR, KTC3198GR	AB.....
Q	357	87-026-610-080	TR, KTC3198GR	AB.....
Q	359	87-026-610-080	TR, KTC3198GR	AB.....
Q	355	87-A30-074-080	C-TR, RT1P 141C	AB.....
Q	354	87-A30-087-080	C-FET, 2SK2158	AB.....
Q	353	87-A30-087-080	C-FET, 2SK2158	AB.....
Q	351	87-A30-087-080	C-FET, 2SK2158	AB.....
Q	360	87-A30-073-080	C-TR, RT1N 141C	AB.....
Q	382	87-A30-076-080	C-TR, 2SC3052F	AB.....
Q	381	87-A30-076-080	C-TR, 2SC3052F	AB.....
SFR	302	87-A90-636-080	SFR, 33K H RH0638C LG	AB.....
SFR	303	87-A90-636-080	SFR, 33K H RH0638C LG	AB.....
SFR	301	87-A90-636-080	SFR, 33K H RH0638C LG	AB.....
SFR	304	87-A90-636-080	SFR, 33K H RH0638C LG	AB.....
SFR	306	87-A90-637-080	SFR, 47K H RH0638C LG	AB.....
SFR	305	87-A90-637-080	SFR, 47K H RH0638C LG	AB.....
SFR	351	87-A90-637-080	SFR, 47K H RH0638C LG	AB.....
SFR	352	87-A90-637-080	SFR, 47K H RH0638C LG	AB.....
D	501	87-A40-269-080	C-DIODE, MC2836	AB.....
Q	506	87-A30-073-080	C-TR, RT1N 141C	AB.....
Q	504	87-A30-073-080	C-TR, RT1N 141C	AB.....
Q	502	87-A30-085-070	C-TR, CSA1362GR	AB.....
Q	503	87-A30-085-070	C-TR, CSA1362GR	AB.....
Q	501	89-112-965-080	TR, 2SA1296 (0.75W)	AB.....

SCHEMATIC DIAGRAM – 1 (FX-NM1000/NH1000: MAIN / FRONT)



Y.KON80

8SW-1

06 APR 1998

MECHANICAL PARTS LIST - 1 (FX-NM1000/NH1000)

NOTE: The characters in the suffix column indicate the part usage.

MUSN XX.....A.....
SLSN XX.....B.....

REF.NO	PARTS NO.	DESCRIPTION	SUFFIX	
	87-B00-002-010	BADGE, AIWA 30 ABS SIL	AB.....	
	88-SU1-014-010	RING, FOOT	AB.....	
	88-SW1-001-010	CABI, FR	.B.....	
	88-SW1-002-010	CABI, STEEL	AB.....	
	88-SW1-003-010	BOX, CASS 1	.B.....	
	88-SW1-004-010	BOX, CASS 2	AB.....	
	88-SW1-007-010	CABI, REAR YSNM	.....	
	88-SW1-016-010	CABI, REAR YJSNM	.....	
	88-SW1-017-010	CABI, REAR YUSNM	.....	
	88-SW1-018-010	CABI, FR U	A.....	
	88-SW1-021-010	CABI, REAR YLSNM	.....	
	88-SW1-022-010	BOX, CASS 1 U	A.....	
	88-SW1-023-010	CABI, REAR YS	.....	
	88-SW1-024-010	CABI, REAR YLSN	.B.....	
	88-SW1-025-010	CABI, REAR YUSN	A.....	
	88-SW1-026-010	CABI, REAR YSN	.....	
	88-SW1-008-010	KEY, OPE	AB.....	
	88-SW1-009-010	KEY, REC	AB.....	
	88-SW1-010-010	REFLECTOR, PLAY	AB.....	
	88-SW1-012-010	REFLECTOR, PAUSE	AB.....	
	88-SW1-013-010	REFLECTOR, REC	AB.....	
	88-SW1-014-010	KEY, ASSY OPE	AB.....	
	88-SW1-015-010	KEY, ASSY REC	AB.....	
	81-532-080-010	LABEL, CASS. COMPT	AB.....	
	88-SW1-005-010	WINDOW, CASS 1	AB.....	
	88-SW1-006-010	WINDOW, CASS 2	AB.....	
	88-SW1-019-010	PLATE, CASS 1	AB.....	
	88-SW1-020-010	PLATE, CASS 2	AB.....	
	86-NF5-618-110	CONN ASSY, 8P RPB	AB.....	
	82-NF5-218-010	SPR-T, EJECT 1 (SIN)	AB.....	
	82-NF5-219-010	SPR-T, EJECT 2 (SIN)	AB.....	
	82-NF5-229-010	PLATE, LOCK	AB.....	
	86-NF9-224-010	SPR-C, LOCK	AB.....	
	87-NF4-216-010	HLDR, LOCK 1	AB.....	
	87-NF4-217-010	HLDR, LOCK 2	AB.....	
	87-NF8-220-010	DMPR, 150	AB.....	
	87-067-641-010	UTT2+3-8(W/O SLOT)BL	AB.....	
	87-067-703-010	TAPPING SCREW, BVT2+3-10	AB.....	
W	501	88-915-161-110	FF-CABLE, 15P 1.25	AB.....
W	701	88-904-331-110	FF-CABLE, 4P 1.25 330MM	AB.....
W	702	88-906-301-110	FF-CABLE, 6P-1.25	AB.....
		88-SW1-201-010	GUIDE, LED OPE	AB.....
W	601	88-SW1-607-010	CORD, FG9P	AB.....

TAPE MECHANISM PARTS LIST - 1 (FX-NM1000/NH1000)

REF.NO.	PARTNO.	KANRI NO	DESCRIPTION	REF.NO.	PARTNO.	KANRI NO	DESCRIPTION
1	82-ZM3-301-519		CHAS ASSY, M2	36	82-ZM1-236-019		CAPSTAN N 2-41.5
2	82-ZM1-258-110		SPR-T, PINCH L	37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
3	82-ZM1-341-110		LVR ASSY, PINCH L2	38	82-ZM1-322-019		SPR-T, FR60
4	82-ZM1-333-010		PLATE, LINK 2	39	82-ZM1-220-219		GEAR, IDLER
5	82-ZM1-266-11K		LVR, DIR	40	82-ZM3-616-019		RING MAGNET 4
6	82-ZM1-214-010		SPR-T, DIR	41	82-ZM1-216-31K		GEAR, REEL
7	82-ZM1-206-81K		CHAS, HEAD	42	87-A90-319-010		HEAD, PH HADKH2 FPC
8	82-ZM3-307-019		CUSH-G, DIA3.7-8-3.2	42	87-A90-320-010		HEAD, RPH HADKH5 FPC
9	82-ZM1-269-219		SPR-T, BRG	43	82-ZM1-225-21K		GEAR, FR
10	82-ZM1-219-119		SPR-T, LINK	44	82-ZM1-226-019		GEAR, REW
11	82-ZM1-210-119		GEAR, H T	45	82-ZM3-333-310		SLIP DISK ASSY 2
12	82-ZM1-213-019		SPR-T, HEAD	46	82-ZM1-338-010		BELT FR4
13	82-ZM1-207-619		GUIDE, TAPE	47	82-ZM1-349-110		FLY-WHL, R W(DECK 2)
14	86-ZM4-206-010		S-SCREW, AZIMUTH	47	82-ZM3-338-110		FLY-WHL, R3 W(DECK 1)
15	82-ZM1-314-119		PLATE, HEAD	48	82-ZM1-348-010		FLY-WHL, L W(DECK 2)
16	82-ZM1-208-119		HLDR, HEAD	48	82-ZM1-348-010		FLY-WHL, L W(DECK 1)
17	82-ZM1-218-019		SPR-E, HB	49	82-ZM3-329-210		BELT, SBU R2
18	82-ZM1-263-110		LVR, EJECT L (DECK 1)	50	82-ZM1-245-210		HLDR, IC
18	82-ZM1-264-010		LVR, EJECT R (DECK 2)	51	87-045-347-019		MOT, SHU2L 70(M1)
19	82-ZM1-222-21K		LVR, PLAY	52	82-ZM3-221-010		PULLEY, MOT 2M
20	82-ZM1-217-319		REEL TABLE	53	82-ZM1-288-019		SH, 1.63-3.2-0.5 SLT
21	82-ZM1-244-510		SPR-C, BT	54	80-ZM6-243-019		SH, 1.75-3.6-0.5 SLT
22	82-ZM1-285-310		SPR-C, BT L	55	82-ZM3-335-210		PULLEY, COUPLER M3(DECK 1)
23	82-ZM1-257-019		SPR-T, CAS	56	82-ZM3-337-010		BELT, SBU MOT 2
24	82-ZM1-241-319		LVR, MC	57	82-ZM3-339-010		SHAFT, COUPLER N3(DECK 1)
25	82-ZM1-242-019		LVR, CAS	58	86-ZM1-206-010		BELT, MAIN L
26	82-ZM1-243-019		LVR, STOP	59	82-ZM3-340-010		SH, BELT D2
27	82-ZM1-344-110		LVR ASSY, PINCH R2	A	85-ZM3-202-010		S-SCREW, TG
28	82-ZM1-259-110		SPR-T, PINCH R	B	80-ZM6-207-019		V+1.6-7
29	82-ZM1-240-11K		LVR, REC (DECK 2)	C	82-ZM3-318-019		S-SCRW MOTOR M2
31	82-ZM1-255-319		SPR-E, LVR DIR	D	87-B10-043-010		W-P, 0.99-4-0.25 SLT
32	82-ZM3-305-01K		GEAR, CAM M2	E	82-ZM3-334-010		PW, 2.16-6-0.4
33	82-ZM1-227-21K		LVR, TRIG				
34	82-ZM3-306-11K		LVR, FR M2				
35	82-ZM1-265-119		SPR-E, TRIG				

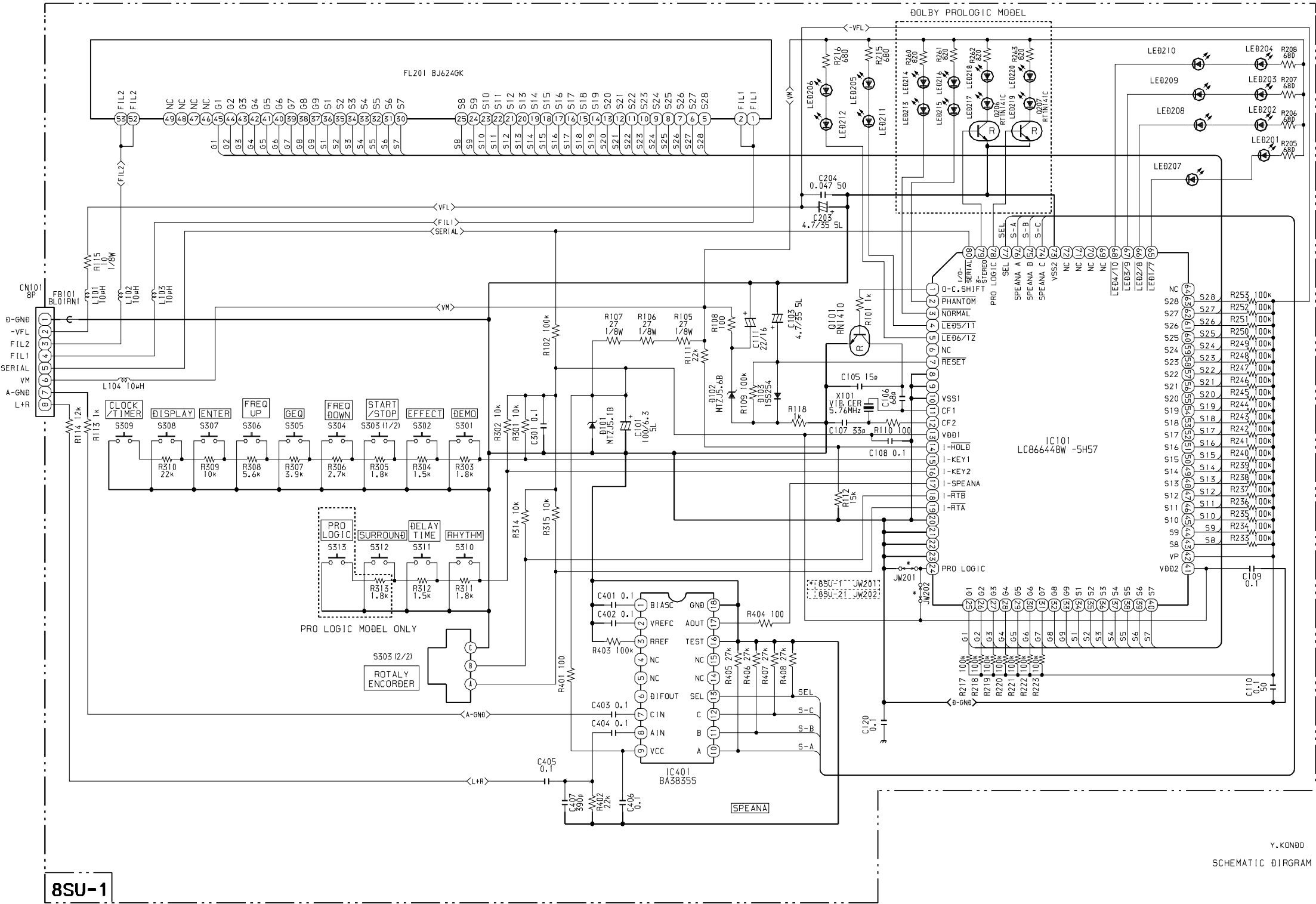
ELECTRICAL MAIN PARTS LIST - 1 (GE-NM1000/NH1000)

NOTE: The characters in the suffix column indicate the part usage.

MUSN XX.....A.....
 SLSN XX.....B.....

REF.NO	PARTS NO.	DESCRIPTION	SUFFIX
C	301	87-010-196-080	CHIP CAPACITOR, 0.1-25
S	301	87-A90-095-080	SW, TACT EVQ11G04M
S	308	87-A90-095-080	SW, TACT EVQ11G04M
S	302	87-A90-095-080	SW, TACT EVQ11G04M
S	309	87-A90-095-080	SW, TACT EVQ11G04M
S	304	87-A90-095-080	SW, TACT EVQ11G04M
S	305	87-A90-095-080	SW, TACT EVQ11G04M
S	307	87-A90-095-080	SW, TACT EVQ11G04M
S	306	87-A90-095-080	SW, TACT EVQ11G04M
S	303	87-A90-792-010	SW, RTRY EC12E12244
S	310	87-A90-095-080	SW, TACT EVQ11G04M
S	311	87-A90-095-080	SW, TACT EVQ11G04M
S	312	87-A90-095-080	SW, TACT EVQ11G04M
C	108	87-010-196-080	CHIP CAPACITOR, 0.1-25
C	109	87-010-196-080	CHIP CAPACITOR, 0.1-25
C	105	87-010-312-080	C-CAP, S 15P-50 CH
C	107	87-010-316-080	C-CAP, S 33P-50 CH
C	106	87-010-320-080	CHIP CAP 68P
C	103	87-010-497-040	CAP, E 4.7-35 GAS
C	101	87-010-550-040	CAP, E 100-6.3 GAS
C	110	87-012-368-080	C-CAP, S 0.1-50 F
C	120	87-010-196-080	CHIP CAPACITOR, 0.1-25
D	101	87-070-136-080	ZENER, MTZJ5.1B
D	102	87-A40-337-080	ZENER, MTZJ 6.8B
D	103	87-A40-470-080	DIODE, 1SS254
FB	101	87-008-372-080	FILTER, EMI BL OIRNI
IC	101	88-SU1-603-010	IC, LC866448W-
L	102	87-005-130-080	COIL, 10UH
L	103	87-005-130-080	COIL, 10UH
L	101	87-005-152-080	COIL, 10UH
L	104	87-005-152-080	COIL, 10UH
Q	101	87-026-263-080	C-TR, RN1410
W	101	88-SU1-608-010	CORD, FG 8P
X	101	87-A70-070-080	VIB, CER 5.76MHZ CRHF
		88-SU1-201-010	GUIDE, FL
C	203	87-010-497-040	CAP, E 4.7-35 GAS
C	204	87-012-369-080	C-CAP, S 0.047-50F
FL	201	88-SU1-605-010	FL, BJ624GK
LED	203	87-017-350-080	LED, SEL1550CM
LED	206	87-017-350-080	LED, SEL1550CM
LED	207	87-017-350-080	LED, SEL1550CM
LED	201	87-017-350-080	LED, SEL1550CM
LED	208	87-017-350-080	LED, SEL1550CM
LED	205	87-017-350-080	LED, SEL1550CM
LED	204	87-017-350-080	LED, SEL1550CM
LED	202	87-017-350-080	LED, SEL1550CM
LED	209	87-017-350-080	LED, SEL1550CM
LED	212	87-017-350-080	LED, SEL1550CM
LED	211	87-017-350-080	LED, SEL1550CM
LED	210	87-017-350-080	LED, SEL1550CM
C	403	87-010-196-080	CHIP CAPACITOR, 0.1-25
C	405	87-010-196-080	CHIP CAPACITOR, 0.1-25
C	402	87-010-196-080	CHIP CAPACITOR, 0.1-25
C	404	87-010-196-080	CHIP CAPACITOR, 0.1-25
C	401	87-010-196-080	CHIP CAPACITOR, 0.1-25
C	406	87-010-196-080	CHIP CAPACITOR, 0.1-25
C	407	87-012-158-080	C-CAP, S 390P-50 CH
IC	401	87-A20-083-010	IC, BA3835S

SCHEMATIC DIAGRAM – 1 (GE-NM1000/NH1000: MAIN)



Y. KONDO
SCHEMATIC DIAGRAM

8SU-1

B-8SU-1-FR

8SU-1

GE-NH1000
24 MAR 1998

MECHANICAL PARTS LIST - 1 (GE-NM1000/NH1000)

NOTE: The characters in the suffix column indicate the part usage.

MUSN XX.....A.....
SLSN XX.....B.....

REF.NO	PARTS NO.	DESCRIPTION	SUFFIX
	87-B00-002-010	BADGE, AIWA 30 ABS SIL	AB.....
	88-SU1-001-010	CABI, FR	.B.....
	88-SU1-002-010	CABI, STEEL	AB.....
	88-SU1-003-010	CABI, REAR YSNM	.....
	88-SU1-005-010	REFLECTOR, JOG	AB.....
	88-SU1-006-010	PANEL, JOG	AB.....
	88-SU1-014-010	RING, FOOT	AB.....
	88-SU1-017-010	CABI, FR U	A.....
	88-SU1-021-010	CABI, REAR YJSNM	.....
	88-SU1-022-010	CABI, REAR YUSNM	.....
	88-SU1-023-010	CABI, REAR YLSNM	.....
	88-SU1-025-010	CABI, REAR YLSN	.B.....
	88-SU1-026-010	CABI, REAR YUSN	A.....
	88-SU1-027-010	CABI, REAR YSN	.....
	88-SU1-007-010	KNOB, RTRY JOG	AB.....
	88-SU1-008-010	KEY, GEO	AB.....
	88-SU1-009-010	KEY, TIMER	AB.....
	88-SU1-010-010	KEY, ENTER	AB.....
	88-SU1-012-010	KEY, DEMO	AB.....
	88-SU1-004-010	WINDOW, DISPLAY	AB.....
	88-SU1-201-010	GUIDE, FL	.....
	87-067-641-010	UTT2+3-8(W/O SLOT)BL	AB.....
	87-067-703-010	TAPPING SCREW, BVT2+3-10	AB.....
W 101	88-SU1-608-010	CORD, FG 8P	AB.....
	88-SU1-201-010	GUIDE, FL	AB.....

ACCESSORIES / PACKAGE LIST - 1

NOTE: The characters in the suffix column indicate the part usage.

U	XX.....	A.....	
LH	XX.....	B.....	
REF.NO	PARTS NO.	DESCRIPTION	SUFFIX
	88-SP1-901-010	IB, H(ECA)M	.....
	88-SP1-902-010	IB, LH(ESP)M	.B.....
	88-SP1-903-010	IB, U(ESF)M	A.....
	88-SP1-905-010	IB, K(E)M	.....
	87-006-225-010	AM LOOP ANT NC2	AB.....
	87-043-095-010	WIRE ANTENNA	.....
	87-043-106-010	WIRE FM ANT (Z)	.....
	87-043-115-010	ANT, FEEDER FM	AB.....
	87-A90-312-010	PLUG, CONVERSION WTN-1157R1	.B.....
	87-NF4-655-010	RC UNIT, RC-7AS08	AB.....
ANT 0	87-006-269-010	AM LOOP ANT (UN)	.....

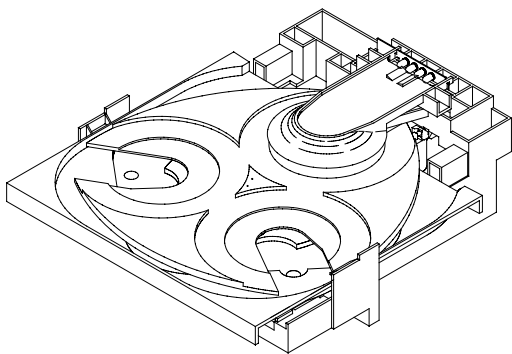
サービス技術ニュース	
番号	連絡内容
Gー	ー
Gー	ー
Gー	ー

アイワ株式会社
AIWA CO.,LTD.

9420208,9630472,9630466

Tokyo Japan

4ZG-1



CD MECHANISM

• BASIC CD MECHANISM:3ZG-2 E1

• TYPE: English

BASIC NAME	DERIVATION NAME					
4ZG-1	V	O	S1	D	SH	

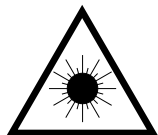
■ This Service Manual has various derivation.Derivation name is indicated by the Service Manual for each model.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainituulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

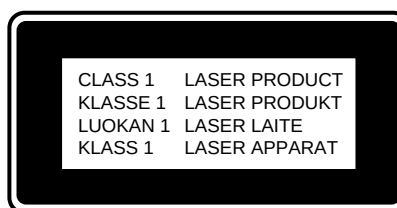
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

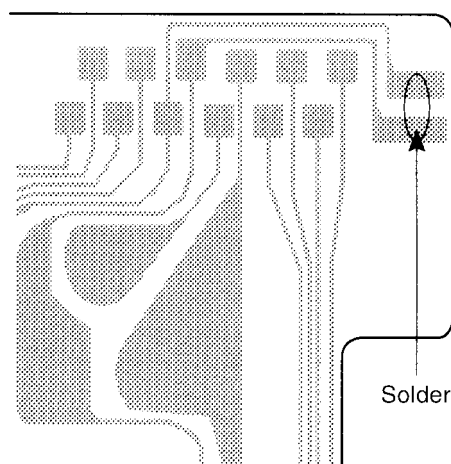


Precaution to replace Optical block (KSS-213F)

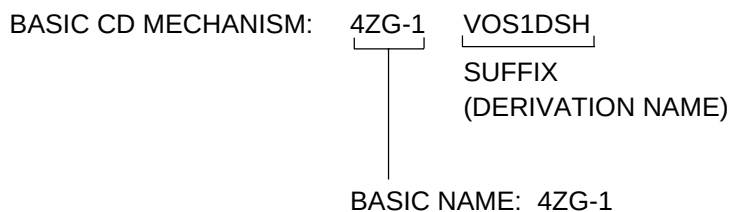
Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in the right figure.

PICK-UP Assy P.C.B



This is the SERVICE MANUAL for the BASIC CD MECHANISM of BASIC NAME: 4ZG-1. This BASIC NAME includes the following models as shown under the SUFFIX name: DERIVATION NAME. Please use this manual with the separate SERVICE MANUAL for DERIVATION NAME.



BASIC NAME	DERIVATION NAME							
4ZG-1	V	O	S1	D	SH	—	—	—

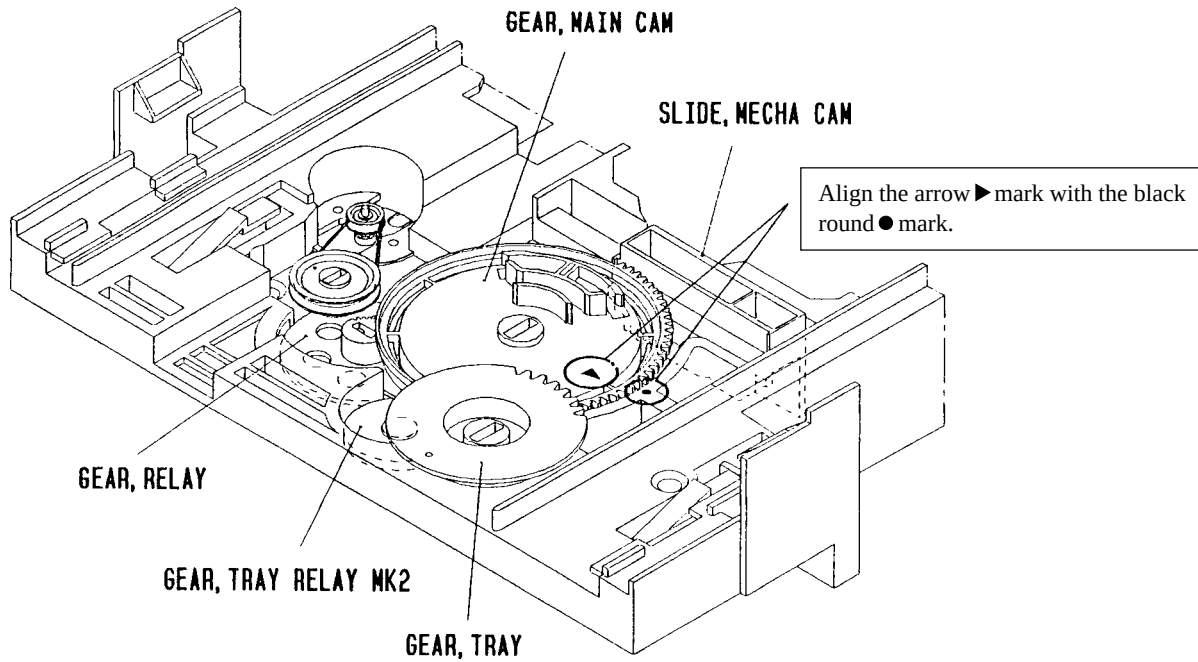
DERIVATION NAME

V: VIDEO OUT
O: On screen display
S1: THE 1st SONY IC MODEL
D: Digital output function
SH: Pick up equipped with shutter

How to Adjust the Rotating Phase of the Gear, Main Cam

- 1) Push down the hooking catch of the CHAS. MECH, and remove the TRAY.
- 2) Align the arrow mark of the Gear, Main Cam with the black round mark of the CHAS, MECHA as shown below.
- 3) Confirm that the Slide, Mech Cam is located in the right position, then insert the TRAY gently.

Caution: If the rotating phase of the Gear, Main Cam is incorrectly adjusted, the chucking operation and tray movement will have malfunction.



ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

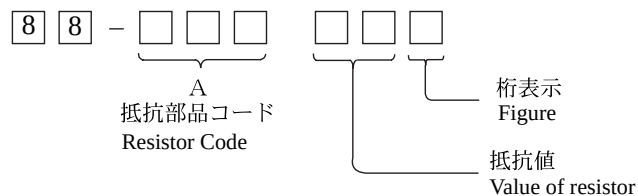
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				C135	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A20-547-010	C-IC, CXA1992AR		C136	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A20-919-040	C-IC, BA5915FP		C137	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A20-917-010	C-IC, CXD2540Q-1/2		C138	87-010-182-080		C-CAP,S 2200P-50 B
	84-ZG1-697-010	C-IC, UPD78016FGC-549		C139	87-010-197-080		CAP, CHIP 0.01 DM
	87-017-825-010	IC, GP1F32T		C140	87-010-112-040		CAP,E 100-16
	87-017-760-080	IC, M51943BML		C141	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A20-602-040	C-IC, M5291FP		C142	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A20-925-040	C-IC, BA05FP		C143	87-010-213-080		C-CAP,S 0.015-50 B
	87-A20-905-040	C-IC, BA033FP		C151	87-010-263-040		CAP,E 100-10
	87-001-873-010	IC, LB1644		C152	87-010-197-080		CAP, CHIP 0.01 DM
	87-A20-920-010	C-IC, CL680-D1		C153	87-A10-893-040		CAP,E 220-10 M PW
	87-A20-921-040	C-IC, SN74LVU04APW		C154	87-010-197-080		CAP, CHIP 0.01 DM
	87-A20-656-040	C-IC, MB81V4260S-60/70PFTN		C155	87-010-184-080		CHIP CAPACITOR 3300P(K)
	84-ZG1-695-040	C-IC, LH5V2RN1		C156	87-010-992-080		C-CAP,S 0.047-25 B
	87-A20-975-040	C-IC, SN74LV74APW		C157	87-010-992-080		C-CAP,S 0.047-25 B
	87-A20-974-040	C-IC, LC74781M-9017		C158	87-012-156-080		C-CAP,S 220P-50 CH
	87-A20-918-040	C-IC, SM5878AM		C159	87-016-526-080		C-CAP,S 0.47-16 BK
				C160	87-010-314-080		C-CAP,S 22P-50V
				C161	87-010-182-080		C-CAP,S 2200P-50 B
TRANSISTOR				C162	87-010-178-080		CHIP CAP 1000P
	87-026-463-080	TR, 2SA933S (0.3W)		C201	87-016-669-080		C-CAP,S 0.1-25 K B
	87-026-237-080	CHIP-TR, DTC124XK		C204	87-010-197-080		CAP, CHIP 0.01 DM
	89-327-125-080	CHIP TR, 2SC2712GR		C205	87-010-379-040		CAP,E 22-16 M SME
	87-026-231-080	CHIP-TRANSISTER, DTA124XK		C206	87-010-322-080		C-CAP,S 100P-50 CH
	87-A30-117-010	TR, 2SA1357		C207	87-010-322-080		C-CAP,S 100P-50 CH
	89-111-625-080	TR, 2SA1162 (0.15W)		C208	87-010-322-080		C-CAP,S 100P-50 CH
	87-026-580-080	C-TR, DTA123JK		C209	87-010-322-080		C-CAP,S 100P-50 CH
	87-026-470-080	TR, HN1C03F (0.3W)		C210	87-016-669-080		C-CAP,S 0.1-25 K B
				C211	87-010-263-040		CAP,E 100-10
DIODE				C213	87-010-190-080		S CHIP F 0.01
	87-020-027-080	CHIP-DIODE 1SS184		C214	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-017-024-040	C-DIODE, DA204K		C301	87-016-251-040		CAP,E 220-16 SMG
	87-A40-180-040	C-DIODE, SB07-015C		C302	87-012-140-080		CAP 470P
	87-A40-384-080	C-ZENER, UDZ3.3B		C303	87-010-178-080		CHIP CAP 1000P
				C304	87-010-384-040		CAP,E 100-25 SME
				C305	87-010-982-040		CAP,E 33-25 GAS
				C306	87-010-112-040		CAP,E 100-16
				C307	87-010-196-080		CHIP CAPACITOR,0.1-25
				C308	87-010-263-040		CAP,E 100-10
3CD C.B				C309	87-010-196-080		CHIP CAPACITOR,0.1-25
C101	87-010-182-080	C-CAP,S 2200P-50 B		C310	87-010-263-040		CAP,E 100-10
C102	87-016-669-080	C-CAP,S 0.1-25 K B		C311	87-010-196-080		CHIP CAPACITOR,0.1-25
C103	87-016-669-080	C-CAP,S 0.1-25 K B		C312	87-010-178-080		CHIP CAP 1000P
C104	87-016-669-080	C-CAP,S 0.1-25 K B		C320	87-010-196-080		CHIP CAPACITOR,0.1-25
C105	87-010-404-040	CAP,E 4.7-50 SME		C401	87-016-044-040		CAP,E 100-16 GAS
C106	87-016-369-080	C-CAP,S 0.033-25 B K		C402	87-010-190-080		S CHIP F 0.01
C107	87-010-197-080	CAP, CHIP 0.01 DM		C403	87-010-190-080		S CHIP F 0.01
C108	87-010-401-040	CAP,E 1-50 SME		C501	87-010-197-080		CAP, CHIP 0.01 DM
C109	87-010-382-040	CAP,E 22-25 SME		C502	87-010-197-080		CAP, CHIP 0.01 DM
C110	87-010-213-080	C-CAP,S 0.015-50 B		C503	87-010-197-080		CAP, CHIP 0.01 DM
C111	87-010-263-040	CAP,E 100-10		C504	87-010-154-080		CAP CHIP 10P
C112	87-010-197-080	CAP, CHIP 0.01 DM		C505	87-010-154-080		CAP CHIP 10P
C113	87-016-369-080	C-CAP,S 0.033-25 B K		C506	87-010-197-080		CAP, CHIP 0.01 DM
C114	87-016-369-080	C-CAP,S 0.033-25 B K		C508	87-010-263-040		CAP,E 100-10
C115	87-016-369-080	C-CAP,S 0.033-25 B K		C509	87-016-669-080		C-CAP,S 0.1-25 K B
C116	87-012-158-080	C-CAP,S 390P-50 CH		C510	87-010-263-040		CAP,E 100-10
C117	87-012-154-080	C-CAP,S 150P-50 CH		C511	87-016-669-080		C-CAP,S 0.1-25 K B
C118	87-010-494-040	CAP,E 1-50 GAS		C512	87-010-197-080		CAP, CHIP 0.01 DM
C119	87-010-152-080	C-CAP,S 8P-50 CH		C513	87-010-197-080		CAP, CHIP 0.01 DM
C120	87-010-992-080	C-CAP,S 0.047-25 B		C514	87-010-197-080		CAP, CHIP 0.01 DM
C121	87-010-992-080	C-CAP,S 0.047-25 B		C518	87-010-322-080		C-CAP,S 100P-50 CH
C123	87-016-669-080	C-CAP,S 0.1-25 K B		C519	87-012-145-080		CAP, CHIP S 270P CH
C125	87-010-198-080	CAP, CHIP 0.022		C520	87-012-157-080		C-CAP,S 330P-50 CH
C126	87-016-669-080	C-CAP,S 0.1-25 K B		C521	87-012-154-080		C-CAP,S 150P-50 CH
C127	87-010-555-040	CAP,E 100-10 GAS		C522	87-010-371-080		CAP, ELECT 470-6.3V
C130	87-010-555-040	CAP,E 100-10 GAS		C523	87-010-197-080		CAP, CHIP 0.01 DM
C131	87-010-555-040	CAP,E 100-10 GAS		C524	87-010-197-080		CAP, CHIP 0.01 DM
C132	87-010-178-080	CHIP CAP 1000P		C525	87-010-197-080		CAP, CHIP 0.01 DM
C133	87-010-555-040	CAP,E 100-10 GAS		C526	87-010-197-080		CAP, CHIP 0.01 DM
C134	87-010-196-080	CHIP CAPACITOR,0.1-25					

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C527	87-010-197-080	CAP, CHIP 0.01 DM		L506	87-005-204-080	COIL, 47UH	
C528	87-010-197-080	CAP, CHIP 0.01 DM		L507	87-005-204-080	COIL, 47UH	
C529	87-010-197-080	CAP, CHIP 0.01 DM		L508	87-005-817-080	C-COIL, 33UH J FLC32	
C530	87-010-197-080	CAP, CHIP 0.01 DM		M401	87-045-305-010	MOTOR, RF-500TB DC-5V (2MA)	
C531	87-010-197-080	CAP, CHIP 0.01 DM		R130	87-022-364-080	C-RES, S 82K-1/10W F	
C532	87-010-374-040	CAP, E 47-10		R131	87-022-364-080	C-RES, S 82K-1/10W F	
C533	87-010-197-080	CAP, CHIP 0.01 DM		R132	87-022-364-080	C-RES, S 82K-1/10W F	
C534	87-010-555-040	CAP, E 100-10 GAS		R133	87-022-364-080	C-RES, S 82K-1/10W F	
C535	87-010-197-080	CAP, CHIP 0.01 DM		R134	87-022-364-080	C-RES, S 82K-1/10W F	
C536	87-010-078-040	CAP, E 47-6.3 5L		R135	87-022-364-080	C-RES, S 82K-1/10W F	
C537	87-010-197-080	CAP, CHIP 0.01 DM		R507	87-A00-408-080	C-RES, S 2K-1/10W D	
C538	87-010-196-080	CHIP CAPACITOR, 0.1-25		S201	87-A90-162-010	SW, SL 1-1-3 SSSU	
C539	87-016-669-080	C-CAP, S 0.1-25 K B		S401	87-036-109-010	PUSH SWITCH	
C540	87-010-078-040	CAP, E 47-6.3 5L		S402	87-036-109-010	PUSH SWITCH	
C541	87-010-197-080	CAP, CHIP 0.01 DM		W1	84-ZG1-673-010	F-CABLE, 5P 1.25 210MM BLACK N	
C542	87-010-318-080	C-CAP, S 47P-50 CH		W2	85-NFT-611-110	FF-CABLE 16P-1.0	
C544	87-010-197-080	CAP, CHIP 0.01 DM		W3	84-ZG1-630-010	CABLE FFC 6P-1.25	
C546	87-010-197-080	CAP, CHIP 0.01 DM		X201	87-A70-124-080	VIB, CER 8.0MHZ	
C549	87-010-494-040	CAP, E 1-50 GAS		X501	87-A70-125-080	VIB, XTAL 27MHZ 50PPM	
C550	87-010-196-080	CHIP CAPACITOR, 0.1-25		X601	87-030-270-080	VIB, XTAL 16.9344MHZ	
C551	87-012-153-080	C-CAP, S 120P-50 CH					
C552	87-016-526-080	C-CAP, S 0.47-16 BK		LED C.B			
C554	87-010-197-080	CAP, CHIP 0.01 DM		LED401	87-070-200-080	LED, SLP636C-81-S-T1	
C556	87-010-378-040	CAP, E 10-16		LED402	87-017-350-080	LED, SEL1550CM	
C557	87-010-316-080	C-CAP, S 33P-50 CH		LED403	87-017-350-080	LED, SEL1550CM	
C558	87-010-315-080	C-CAP, S 27P-50 CH		LED404	87-070-200-080	LED, SLP636C-81-S-T1	
C560	87-010-197-080	CAP, CHIP 0.01 DM					
C601	87-010-197-080	CAP, CHIP 0.01 DM		T-T C.B			
C602	87-010-197-080	CAP, CHIP 0.01 DM		C401	87-018-214-080	CAP TC U 0.1-50F	
C603	87-010-112-040	CAP, E 100-16		CON401	86-NFZ-675-010	CONN, 5P H 6216-11H	
C604	87-010-196-080	CHIP CAPACITOR, 0.1-25		PS401	87-026-573-010	IC, GP1S53V	
C605	87-010-197-080	CAP, CHIP 0.01 DM					
C606	87-010-197-080	CAP, CHIP 0.01 DM		DRIVE C.B			
C607	87-010-313-080	CAP, CHIP 18P		CN3	87-009-349-010	CONN, 6P H WHT PH	
C608	87-010-313-080	CAP, CHIP 18P		M20	87-045-358-010	MOT, RF-310TA 43	
C609	87-010-178-080	CHIP CAP 1000P		M21	87-045-356-010	MOT, RF-310TA 30	
C610	87-010-178-080	CHIP CAP 1000P		SW1	87-A90-042-010	SW, LEAF MSW-17310MVPO	
C611	87-010-178-080	CHIP CAP 1000P					
C612	87-010-178-080	CHIP CAP 1000P		CD MOTOR C.B			
C613	87-010-403-040	CAP, E 3.3-50 SME		CN4	87-099-210-010	CONN, 5P H BLK 6216	
C614	87-010-403-040	CAP, E 3.3-50 SME		M1	87-045-305-010	MOT, RF-500TB	
C615	87-010-318-080	C-CAP, S 47P-50 CH		SW1	87-035-110-010	SW, MICRO SPPB62	
C616	87-010-318-080	C-CAP, S 47P-50 CH		SW2	87-035-110-010	SW, MICRO SPPB62	
CN101	87-A60-424-010	CONN, 16P V TOC-B					
CN102	87-099-199-010	CONN, 6P 6216 H					
CN401	87-099-212-010	CONN, 5P 6216 V					
CN403	87-099-030-010	CONN, 13P 6216H					
J501	87-009-502-010	JACK, PIN 1P Y EARTH					
L101	87-005-196-080	COIL, 10UH					
L301	87-A50-095-010	COIL, 68UH RCR875D					
L302	87-005-426-080	COIL, 3.3UH K FLR50					
L502	87-005-204-080	COIL, 47UH					
L503	87-005-189-080	COIL 2.7UH					
L504	87-005-187-080	COIL, 1.8UH					
L505	87-005-204-080	COIL, 47UH					

- Regarding connectors, they are not stocked as they are not the initial order items.
The connectors are available after they are supplied from connector manufacturers upon the order is received.

○ チップ抵抗部品コード / CHIP RESISTOR PART CODE

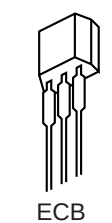
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



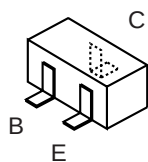
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法 / Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形 / Form	L	W	t	
1/16W	1608	5%	CJ		1.6	0.8	0.45	108
1/10W	2125	5%	CJ		2	1.25	0.45	118
1/8W	3216	5%	CJ		3.2	1.6	0.55	128

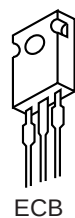
TRANSISTOR ILLUSTRATION



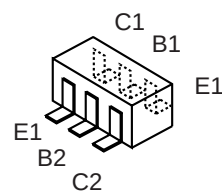
2SA933S



2SA1162
2SC2712
DTA123JK
DTA124XK
DTC124XK

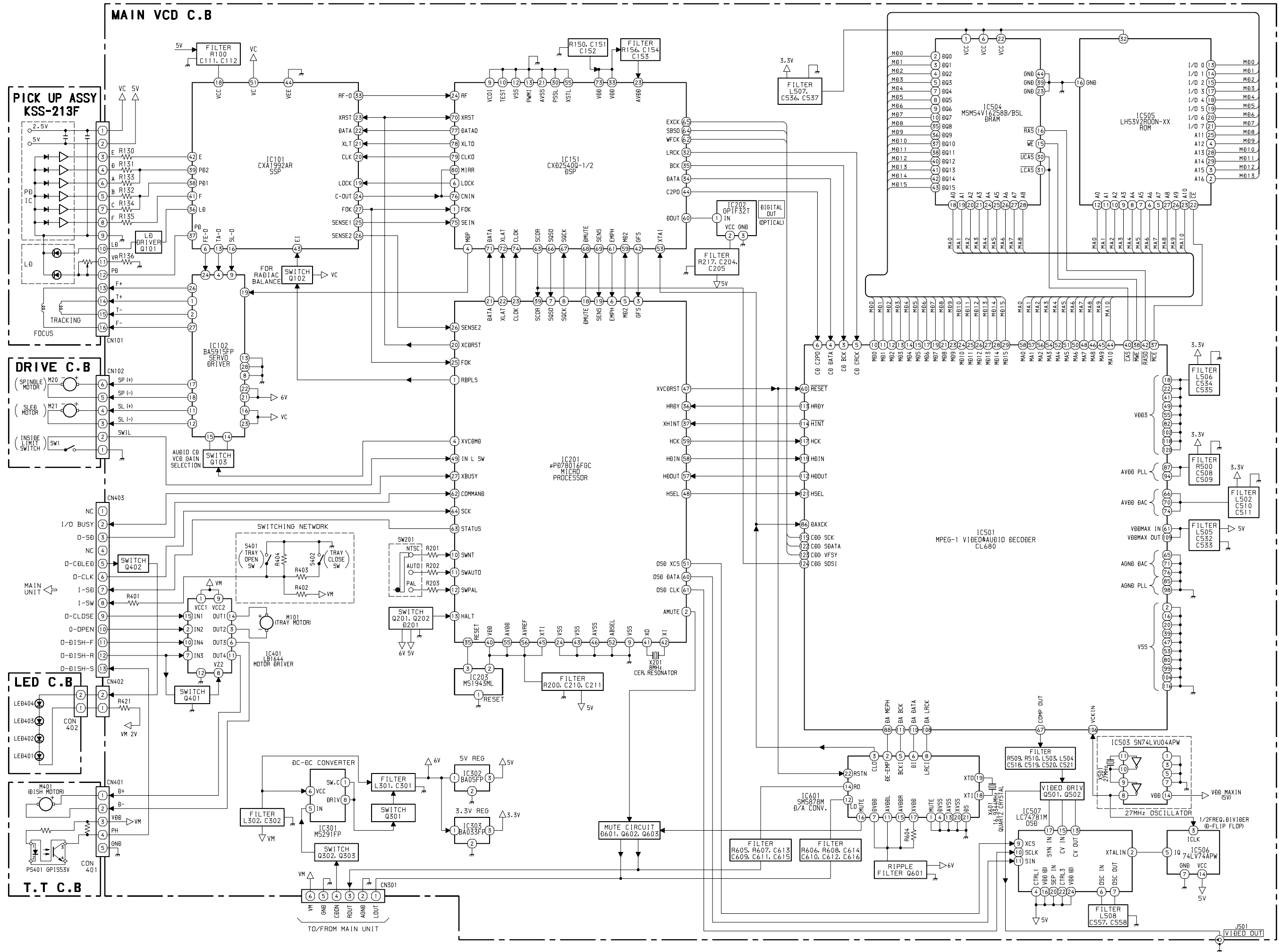


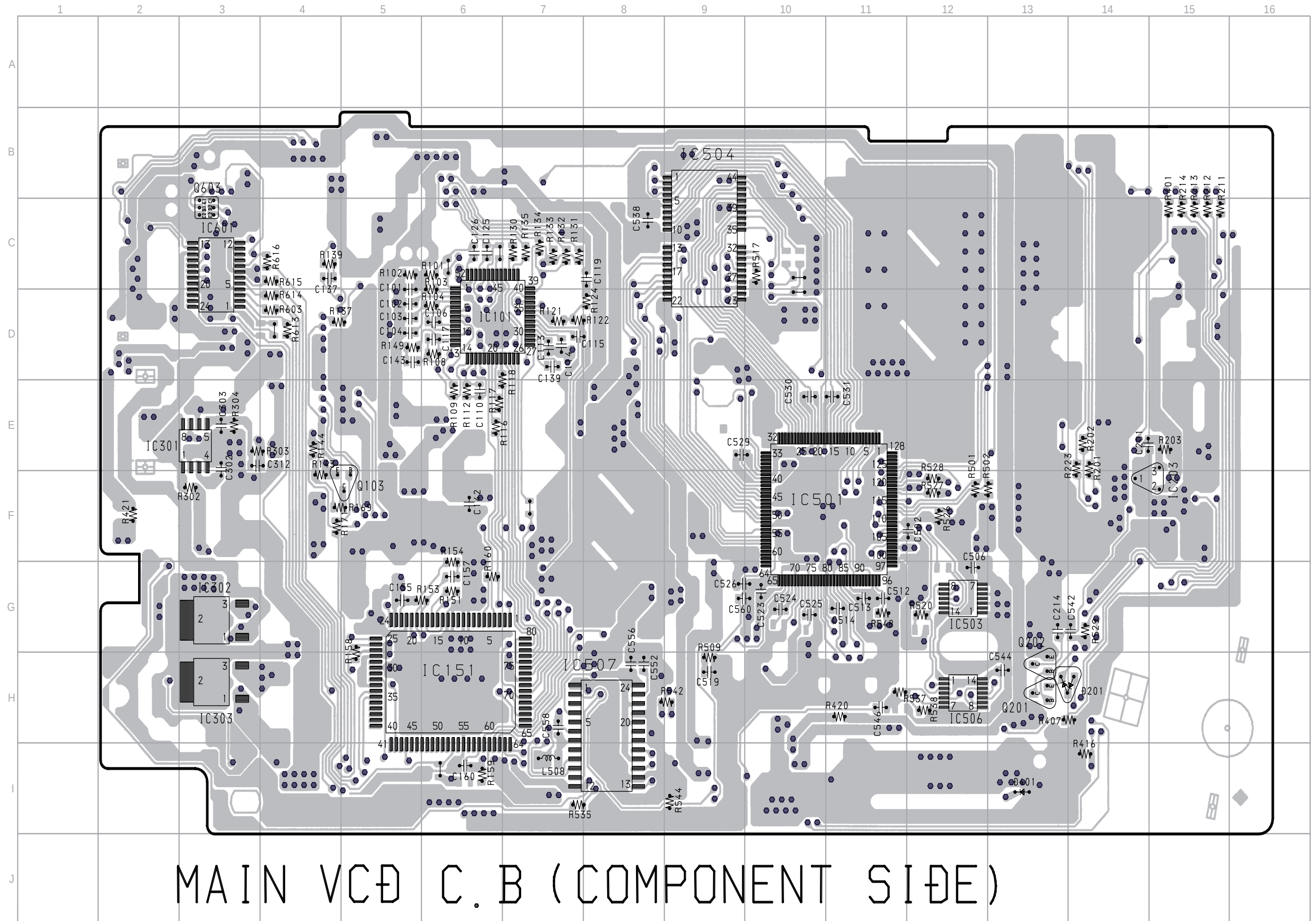
2SA1357



HN1C03F

BLOCK DIAGRAM





1 2 3 4 5 6 7

A

B

C

D

E

F

G

H

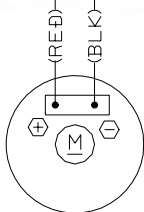
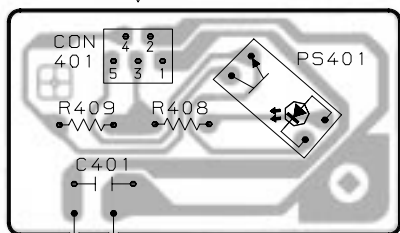
I

J

FROM
MAIN UNIT

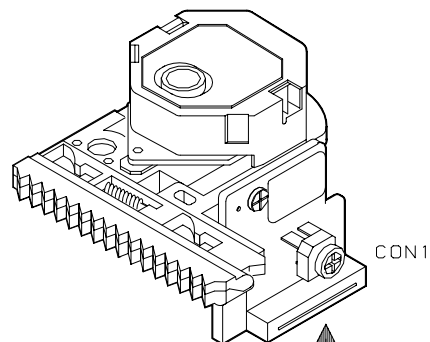
FC4

T-T C.B



M401
(TURN TABLE)
MOTOR

PICK UP ASSY



MAIN VCB C.B
CN101

DRIVE C.B

M20
(SPINDLE)
MOTOR

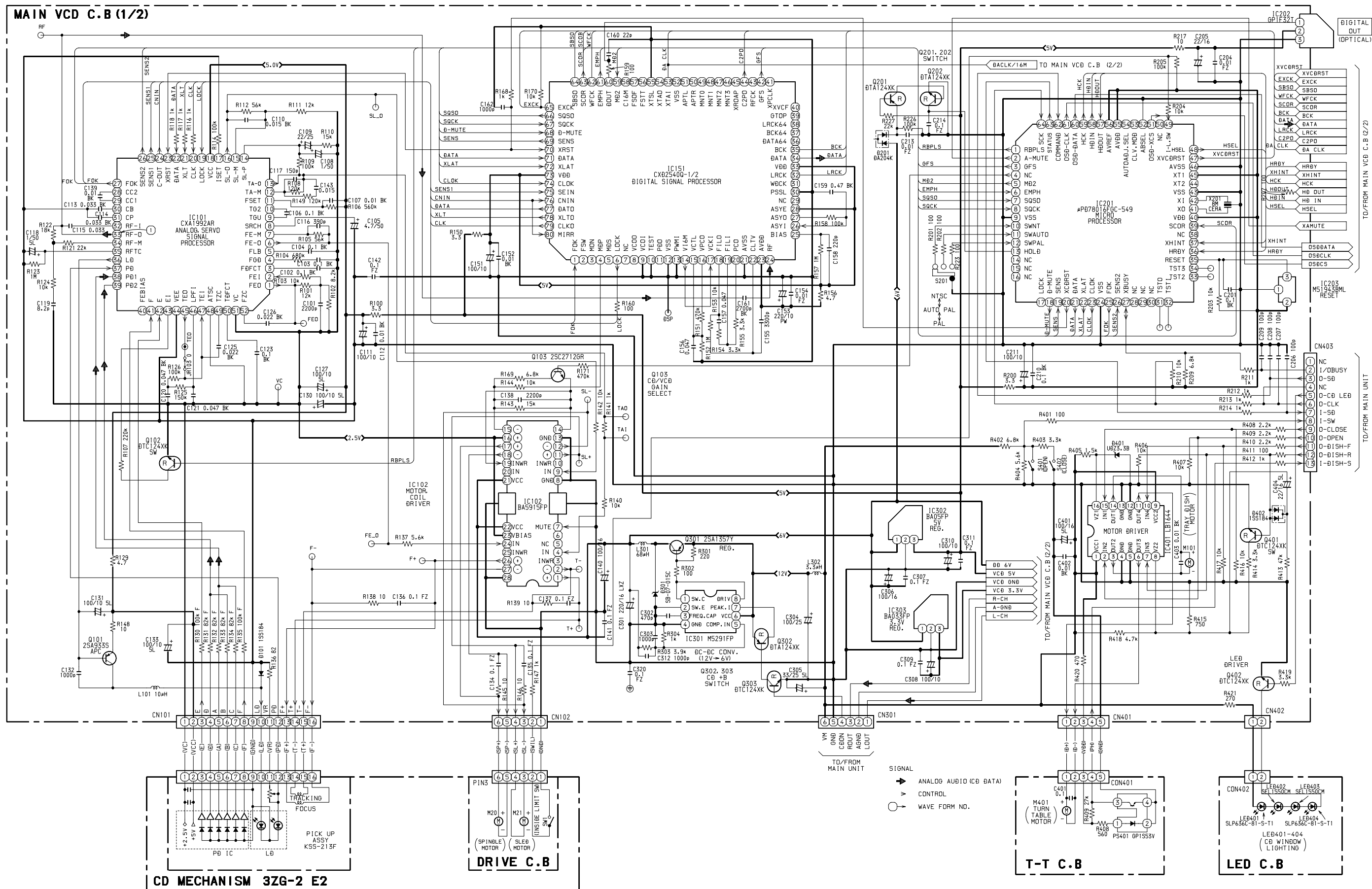
SW1
(INSIDE LIMIT)
SW

M21
(SLED)
MOTOR

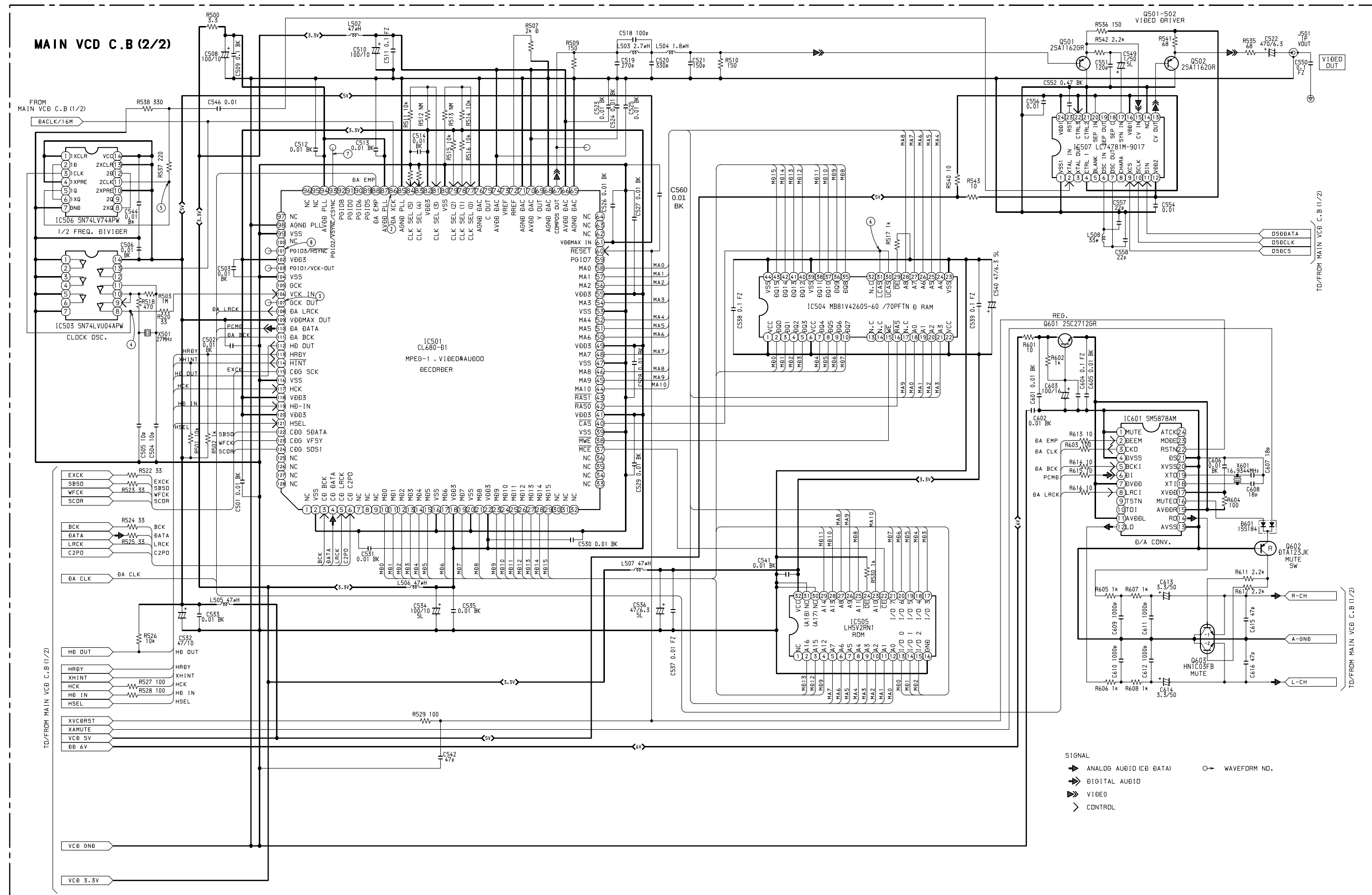
PIN3

MAIN VCB C.B
CN102

SCHEMATIC DIAGRAM-1

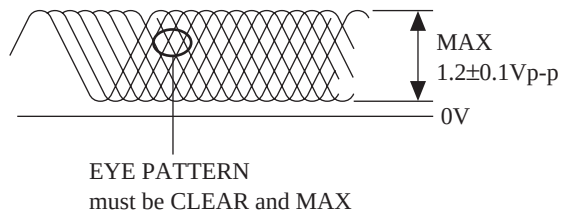


SCHEMATIC DIAGRAM-2

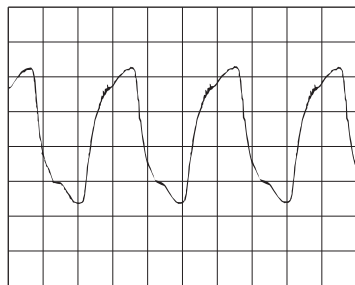


WAVE FORM

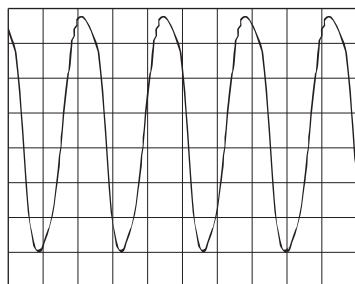
- ① IC101 Pin ③③ (RF-O) VOLT/DIV: 200mV
TIME/DIV: 0.5μS



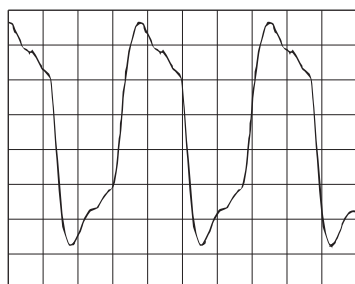
- ② IC501 Pin ⑧⑥ DA XCK 16.93MHz VOLT/DIV: 1V
TIME/DIV: 20nS



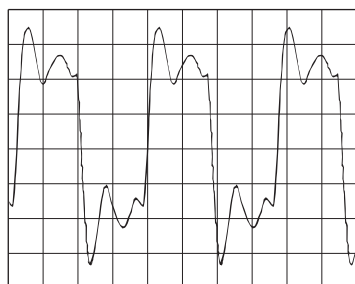
- ③ IC501 Pin ⑩⑦ GCK OUT 42.3MHz VOLT/DIV: 1V
TIME/DIV: 10nS



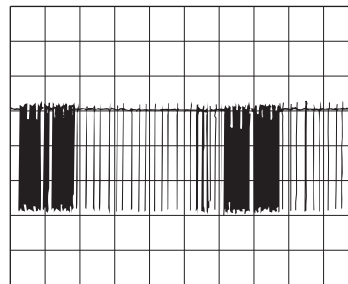
- ④ IC503 Pin ⑧ 33 VCK 27MHz±1.35kHz VOLT/DIV: 1V
TIME/DIV: 10nS



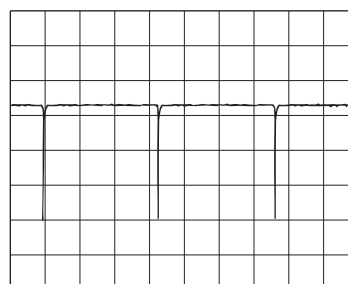
- ⑤ IC506 Pin ⑪ OSD CLK 13.5MHz±675Hz VOLT/DIV: 1V
TIME/DIV: 20nS



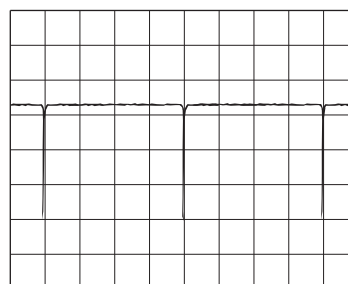
- ⑥ IC504 Pin ③① UCAS (Pin ③① LCAS) VOLT/DIV: 1V
TIME/DIV: 2μS



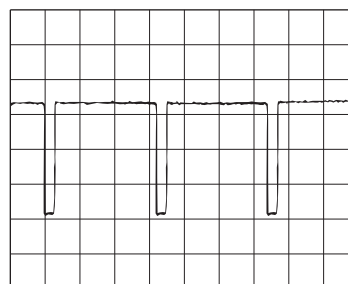
- ⑦ IC501 Pin ⑨③ VSync NTSC VOLT/DIV: 1V
TIME/DIV: 5mS



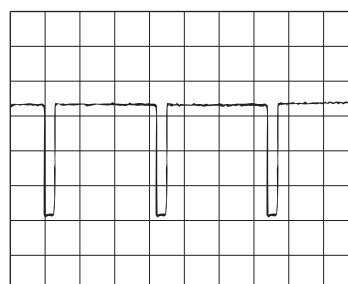
- ⑧ IC501 Pin ⑨③ VSync PAL VOLT/DIV: 1V
TIME/DIV: 5mS



- ⑧ IC501 Pin ⑩① HSync PAL VOLT/DIV: 1V
TIME/DIV: 20μS



- IC501 Pin ⑩① HSync NTSC VOLT/DIV: 1V
TIME/DIV: 20μS



IC DESCRIPTION

IC, CXA1992AR

Pin No.	Pin Name	I/O	Description
1	FEO	O	Output terminal for focus error amplifier. Internally connected to window comparator input for bias condition.
2	FEI	I	Input terminal for focus error.
3	FDFCT	I	Capacitor connection terminal for time constant used when there is defect.
4	FGD	I	This pin is connected to GND via capacitor when high frequency gain of the focus servo is attenuated.
5	FLB	I	This is a pin where the time constant is externally connected to raise the low frequency gain of the focus servo.
6	FE_O	O	Focus drive output.
7	FEM	I	Focus amplifier inverted input pin.
8	SRCH	I	This is a pin where the time constant is externally connected to generate the focus search waveform.
9	TGU	I	This is a pin where the selection time constant is externally connected to set the tracking servo the high frequency gain.
10	TG2	I	This is a pin where the selection time constant is externally connected to set the tracking high frequency gain.
11	FSET	I	Pin for setting peak of the phase compensator of the focus tracking.
12	TA_M	I	Tracking amplifier inverted input pin.
13	TA_O	O	Tracking drive output.
14	SL_P	I	Sled amplifier non-inverted input pin.
15	SL_M	I	Sled amplifier inverted input pin.
16	SL_O	O	Sled drive output.
17	ISSET	I	The current which determines height of the focus search, track jump and sled kick is input with external resistance connected.
18	Vcc	I	Power supply.
19	LOCK	I	“L” setting starts sled disorder-prevention circuit. (Not pull-up resistance)
20	CLK	I	Clock input for serial data transfer from CPU. (No pull-up resistance)
21	XLT	I	Latch input from CPU. (No pull-up resistance)
22	DATA	I	Serial data input from CPU. (No pull-up resistance)
23	XRST	I	Reset system at “L” setting. (No pull-up resistance)
24	C_OUT	O	Signal output for track number counting.
25	SENS1	O	FZC, DFCT1, TZC, BALH, TGH, FOH, or ATSC is output depending on the command from CPU.
26	SENS2	O	DFCT2, MIRR, BALL, TGL or FOL is output depending on the command from CPU.
27	FOK	O	Output terminal for focus OK comparator.
28	CC2	I	Input pin where the DEFECT bottom hold output is capacitance coupled.
29	CC1	O	DEFECT bottom-hold output terminal. Internally connected to interruption comparator input.
30	CB	I	Connection terminal for DEFECT bottom-hold capacitor.
31	CP	I	Connection terminal for MIRR hold-capacitor. Anti-reverse input terminal for MIRR comparator.

Pin No.	Pin Name	I/O	Description
32	RF_I	I	Input terminal by capacity combination of RF summing amplifier.
33	RF_O	O	Output terminal of RF summing amplifier. Checkpoint of Eye pattern.
34	RF_M	I	Anti-reverse input terminal for RF summing amplifier. The gain of RF amplifier is decided by the connection resistance between RF_M and RFO terminals.
35	RFTC	I	This is a pin where the selection time constant is externally connected to control the RF level.
36	LD	O	APC amplifier output terminal.
37	PD	I	APC amplifier input terminal.
38, 39	PD1, PD2	I	RFI-V amplifier inverted input pin. These pins are connected to the A+C and B+C pins of the optical pickup, receiving by currents input.
40	FEBIAS	I/O	Bias adjustment pin of the focus error amplifier.
41, 42	F, E	I	F and EIV amplifier inverted input pins. These pins are connected to the F and E of the optical pickup, receiving by current input.
43	EI	—	Gain adjustment pin of the I-V amplifier E. (When not in use of BAL automatic adjustment)
44	VEE	—	GND connection pin.
45	TEO	O	Output terminal for tacking-error amplifier. Output E-F signal.
46	LPFI	I	BAL adjustment comparator input pin. (Input through LPF from TEO)
47	TEI	I	Input terminal for tracking error.
48	ATSC	I	Window-comparator input terminal for detecting ATSC.
49	TZC	I	Input terminal for tracking-zero cross comparator.
50	TDFCT	I	Capacitor connection pin for the time constant used when there is defect.
51	VC	O	Output terminal for DC voltage reduced to half of VCC+VEE.
52	FZC	I	Input terminal for focus-zero cross comparator.

IC, CXD2540Q

Pin No.	Pin Name	I/O	Description
1	FOK	I	Focus OK input. Used for SENS output and the servo auto sequencer.
2	FSW	O	Spindle motor output filter switching output.
3	MON	O	Spindle motor on/off control output.
4	MDP	O	Spindle motor servo control.
5	MDS	O	
6	LOCK	O	High, when sampled value of GFS at 460Hz is high. Low, when sampled value of GFS at 460Hz is low by 8 times successively.
7	NC		
8	VCOO	O	Analog EFM PLL oscillation circuit output.
9	VCOI	I	Analog EFM PLL oscillation circuit input. f _{LOCK} =8.6436MHz.
10	TEST	I	TEST pin.
11	PDO	O	Analog EFM PLL charge pump output.
12	VSS		GND.
13	PWMI	I	Spindle motor external control input.
14	V16M	O	VCO2 oscillation output for the wide-band EFM PLL.
15	VCTL	I	VCO2 control voltage input for the wide-band EFM PLL.
16	VPCO	O	Wide-band EFM PLL charge pump output.
17	VCKI	I	VCO2 oscillation input for the wide-band EFM PLL.
18	FILO	O	Multiplier PLL (slave=digital PLL) filter output.
19	FILI	I	Multiplier PLL filter input.
20	PCO	O	Multiplier PLL charge pump output.
21	AVSS		Analog GND.
22	CLTV	I	Multiplier VCO1 control voltage input.
23	AVDD		Analog power supply (5V).
24	RF	I	EFM signal input.
25	BIAS	I	Constant current input of the asymmetry circuit.
26	ASYI	I	Asymmetry comparator voltage input.
27	ASYO	O	EFM full-swing output.
28	ASYE	I	Low: asymmetry circuit off; high: asymmetry circuit on.
29	NC		
30	PSSL	I	Audio data output mode switching input. Low: serial output; high: parallel output.
31	WDCK	O	D/A interface for 48-bit slot. Word clock f=2Fs.
32	LRCK	O	D/A interface for 48-bit slot. LR clock f=Fs.
33	VDD		Power supply (5V).
34	DA16	O	DA16 (MSB) output when PSSL=1. 48-bit slot serial data (two's complement, MSB first) when PSSL=0.
35	DA15	O	DA15 output when PSSL=1. 48-bit slot bit clock when PSSL=0.
36	DA14	O	DA14 output when PSSL=1. 64-bit slot serial data (two's complement, LSB first) when PSSL=0.
37	DA13	O	DA13 output when PSSL=1. 64-bit slot bit clock when PSSL=0.
38	DA12	O	DA12 output when PSSL=1. 64-bit slot LR clock when PSSL=0.

Pin No.	Pin Name	I/O	Description
39	DA11	O	DA11 output when PSSL=1. GTOP output when PSSL=0.
40	DA10	O	DA10 output when PSSL=1. XUGF output when PSSL=0.
41	DA09	O	DA09 output when PSSL=1. XPLCK output when PSSL=0.
42	DA08	O	DA08 output when PSSL=1. GFS output when PSSL=0.
43	DA07	O	DA07 output when PSSL=1. RFCK output when PSSL=0.
44	DA06	O	DA06 output when PSSL=1. C2PO output when PSSL=0.
45	DA05	O	DA05 output when PSSL=1. XRAOF output when PSSL=0.
46	DA04	O	DA04 output when PSSL=1. MNT3 output when PSSL=0.
47	DA03	O	DA03 output when PSSL=1. MNT2 output when PSSL=0.
48	DA02	O	DA02 output when PSSL=1. MNT1 output when PSSL=0.
49	DA01	O	DA01 output when PSSL=1. MNT0 output when PSSL=0.
50	APTR	O	Aperture compensation control output. This pin outputs a high signal when the right channel is used.
51	APTL	O	Aperture compensation control output. This pin outputs a high signal when the left channel is used.
52	VSS		GND.
53	XTAI	I	Crystal oscillation circuit input.
54	XTAO	O	Crystal oscillation circuit output.
55	XTSL	I	Crystal selector input.
56	FSTT	O	2/3 frequency divider output for Pins 53 and 54.
57	FSOF	O	1/4 frequency divider output for Pins 53 and 54.
58	C16M	O	16.9344MHz output. (V16M output in CLV-W and CAV-W modes)
59	MD2	I	Digital-out on/off control. High: on; low: off
60	DOUT	O	Digital-out output.
61	EMPH	O	Outputs a high signal when the playback disc has emphasis, and a low signal when there is no emphasis.
62	WFCK	I	WFCK (write frame clock) output.
63	SCOR	O	Outputs a high signal when either subcode sync S0 or S1 is detected.
64	SBSO	O	Sub P to W serial output.
65	EXCK	I	SBSO readout clock input.
66	SQSO	O	Sub Q 80-bit and PCM peak, level meter and internal status outputs.
67	SQCK	I	SQSO readout clock input.
68	MUTE	I	High: mute; low: release
69	SENS	—	SENS output to CPU.
70	XRST	I	System reset. Reset when low.
71	DATA	O	Serial data input from CPU.
72	XLAT	O	Latch input from CPU. Serial data is latched at the falling edge.
73	VDD		Power supply (5V).
74	CLOK	O	Serial data transfer clock input from CPU.
75	SEIN	I	SENS input from SSP.
76	CNIN	I	Track jump count signal input.

Pin No.	Pin Name	I/O	Description
77	DATO	O	Serial data output to SSP.
78	XLTO	O	Serial data latch output to SSP. Latched at the falling edge.
79	CLKO	O	Serial data transfer clock output to SSP.
80	MIRR	I	Mirror signal input. Used when the number of tracks is 128 or more for the 2N-track jump and M track move of the auto sequencer.

Notes)

- The 64-bit slot is an LSB first, two's complement output, and the 48-bit slot is an MSB first, two's complement output.
- GTOP is used to monitor the frame sync protection status. (High: sync protection window open.)
- XUGF is the negative pulse for the frame sync obtained from the EFM signal. It is the signal before sync protection.
- XPLCK is the inverse of the EFM PLL clock. The PLL is designed so that the falling edge and the EFM signal transition point coincide.
- GFS goes high when the frame sync and the insertion protection timing match.
- RFCK is derived from the crystal accuracy, and has a cycle of 136μ.
- C2PO represents the data error status.
- XRAOF is generated when the 32K RAM exceeds the $\pm 28F$ jitter margin.

IC, CL680

Pin No.	Pin Name	I/O	Description
1	NC	—	No connection.
2	VSS	—	GND.
3	CD BCK	I	Bit clock input from CD DSP.
4	CD DATA	I	Data input from CD DSP.
5	CD LRCK	I	LRCK input from CD DSP.
6	CD C2PO	I	C2 pointer input from CD DSP.
7-9	NC	—	No connection.
10-15	MD0-MD5	I/O	DRAM/ROM interface. (DATA)
16	VSS	—	Ground.
17	MD6	I/O	DRAM/ROM interface. (DATA)
18	VDD3	—	Power supply 3.3V.
19	MD7	I/O	DRAM/ROM interface. (DATA)
20	VSS	—	Ground.
21	MD8	I/O	DRAM/ROM interface. (DATA)
22	VDD3	—	Power supply 3.3V.
23-29	MD9-MD15	I/O	DRAM/ROM interface. (DATA)
30-36	NC	—	No connection.
37	$\overline{\text{MCE}}$	—	ROM chip enable.
38	$\overline{\text{MWE}}$	O	DRAM write enable.
39	VSS	—	Ground.
40	$\overline{\text{CAS}}$	O	DRAM/ROM interface.
41	VDD3	—	Power supply 3.3V.
42	$\overline{\text{RASO}}$	O	DRAM/ROM interface.
43	$\overline{\text{RASI}}$	O	
44-46	MA10-MA8	O	DRAM/ROM interface. (Address)
47	VSS	—	Ground.
48	MA7	O	DRAM/ROM interface. (Address)
49	VDD3	—	Power supply 3.3V.
50-52	MA6-MA4	O	DRAM/ROM interface. (Address)
53	VSS	—	Ground.
54	MA3	O	DRAM/ROM interface. (Address)
55	VDD3	—	Power supply 3.3V.
56-58	MA2-MA0	O	DRAM/ROM interface. (Address)
59	PGIO7	I/O	Programmable I/O.
60	$\overline{\text{RESET}}$	I	Reset input.
61	VDD MAX IN	—	Power supply - VDDMAX. (5.0V)
62-64	NC	—	No connection.
65	AGND DAC	—	Analog ground.
66	A DAC	—	Analog power supply (DAC) : 3.3V.
67	COMP OUT	O	Composite out.
68	AGND DAC	—	Analog ground.

Pin No.	Pin Name	I/O	Description
69	Y OUT	O	Video signal “Y” OUT.
70	AVDD DAC	—	Analog power supply (DAC) 3.3V.
71	AGND DAC	—	Analog ground.
72	R REF	I	Reference resistor input.
73	V REF	I	Voltage reference input.
74	AVDD DAC	—	Analog power supply (DAC) : 3.3V.
75	C OUT	O	Video signal “C” out.
76	AGND DAC	—	Analog ground.
77-79	CLK SEL0-2	I	Clock selection input.
80	VSS	—	Ground.
81	CLK SEL3	I	Clock selection input.
82	VDD3	—	Power supply 3.3V.
83, 84	CLK SEL4, 5	I	Clock selection input.
85	AGND PLL	—	Analog ground.
86	DA XCK	I	DA XCK (16.933MHz) input.
87	AVDD PLL	—	Analog power supply 3.3V.
88	DA EMP	O	DAC-emphasis output.
89, 90	PGIO5, O6	I/O	Programmable I/O.
91	PGIO0	I/O	
92	PGIO8	I/O	
93	$\overline{\text{VSYNC/CSYNC}}$	O	$\overline{\text{VSYNC/CSYNC}}$ output.
94	AVDD PLL	—	Analog power supply (PLL) 3.3V.
95	VID_DAC_CK	O	Video DAC clock.
96	PROC_CK	O	Processor clock.
97	AUD_XCK	O	Audio XCK.
98	AGND PLL	—	Analog ground.
99	VSS	—	Ground.
100	NC	—	No connection.
101	$\overline{\text{HSYNC}}$	O	$\overline{\text{HSYNC}}$ output.
102	VDD3	—	Power supply 3.3V.
103	VCK OUT	O	VCK out.
104	VSS	—	Ground.
105	GCK	I	Global clock signal input. (42.3MHz)
106	VCK	I	Video clock signal input. (27.0MHz)
107	GCK OUT	O	Global clock signal output. (27.0MHz)
108	DA LRCK	O	DAC-LRCK output.
109	VDD MAX OUT	—	Power supply (VDD MAX) : 5.0V.
110	DA DATA	O	DAC-PCM data output.
111	DA BCK	O	DAC-BIT clock output.
112	HD OUT	O	Micon interface. (Data out)
113	HRDY	O	Micon interface. (Host ready)

Pin No.	Pin Name	I/O	Description
114	$\overline{\text{HINT}}$	O	Micon interface. (Host interrupt)
115	CDG SCK	I	CD-G serial clock input.
116	VSS	—	Ground.
117	HCK	I	Micon interface. (Host clock)
118	VDD3	—	Power supply 3.3V.
119	HD IN	I	Micon interface. (Host data in)
120	VDD3	—	Power supply 3.3V.
121	HSEL	I	Micon interface. (Host select in)
122	CDG DATA	I	CD-G data input.
123	CDG VFSY	I	CD-G VFSY input.
124	CDG SOSI	I	CD-G SOSI input.
125	DSP-XCK	O	DSP-XCK output.
126-128	NC	—	No connection.

IC, LC74781M

Pin No.	Pin Name	I/O	Description
1	VSS1	—	GND connection terminal. (Digital ground terminal).
2	Xtal IN	I	External X'tal and capacitor for internal sync generator, or the external clock are connected to this terminal. (2fsc or 4fsc).
3	Xtal OUT	O	
4	CTRL1	I	Either the external clock input mode or the X'tal generator mode is selected by this selector terminal. L: X'tal generator mode, H: External clock input.
5	BLANK	O	Blank signal (character and the green ORed signal) is output from this terminal. (MODE 0: composite sync signal is output at H.) When reset ($\overline{\text{RST}}$ terminal = L), the X'tal clock signal is output. (It is not output when reset by the reset command).
6	OSC IN	I	External coil and capacitor for the character output dot clock generator are connected to this terminal.
7	OSC OUT	O	
8	CHARA	O	The character signal is output from this terminal. (MOD 0: when H, the external sync signal identification signal is output from this terminal. This output signal tells whether the external sync signal is present or not. When external sync signal is present, H is output.) When reset ($\overline{\text{RST}}$ terminal = L), the dot clock signal (LC oscillator) is output. (It is not output when reset by the reset command).
9	$\overline{\text{CS}}$	I	Enable signal for the serial data input is input to this terminal. The serial data input is enabled at L. Pull-up resistor is built-in. (Hysteresis input).
10	SCLK	I	Clock of the serial data input is input to this terminal. Pull-up resistor is built-in. (Hysteresis input).
11	SIN	I	Serial data input terminal. Pull-up resistor is built-in. (Hysteresis input).
12	VDD2	—	Power supply for the composite video signal level adjustment. (Analog power supply).
13	CV OUT	O	Composite video signal output terminal.
14	NC	—	Connected to GND or not connected.
15	CV IN	I	Composite video signal input terminal.
16	VDD1	—	Power supply (+5V digital power supply).
17	SYN IN	I	Video signal for the internal sync separator circuit is input to this terminal. (When the internal sync separator circuit is not used, the horizontal sync signal or composite sync signal is input to this terminal).
18	SEP C	—	Internal sync separator circuit bias voltage monitoring terminal.
19	SEP OUT	O	The composite sync output signal of the internal sync separator circuit is output from this terminal. (H: MOD 1. H: during internal sync mode. L: during external sync mode.) (When internal sync separator circuit is not used, the SYN IN input signal is output from this terminal).
20	SEP IN	I	The output signal of the SEP OUT terminal is integrated so that the vertical sync signal is input to this terminal. An integrator circuit must be connected between the SEP OUT terminal and this terminal. When this terminal is not used, it must be connected to VDD1.
21	CTRL2	I	When selecting any of the NTSC or PAL or PAL-M or PAL-N system, the pin setting has priority. When L, the NTSC system is selected after resetting. Selection of either NTSC or PAL or PAL-M or PAL-N system by the command becomes effective. H: PAL-M system.

Pin No.	Pin Name	I/O	Description
22	CTRL3	I	Controls whether or not to input the $\overline{\text{VSYNC}}$ signal to the SEPIN input. L: to input the $\overline{\text{VSYNC}}$ signal. H: not to input the $\overline{\text{VSYNC}}$ signal.
23	$\overline{\text{RST}}$	I	System reset input terminal. Pull-up resistor is built-in. (Hysteresis input).
24	VDD1	—	Power supply. (+5V digital power supply).

IC, μ PD78016FGC

Pin No.	Pin Name	I/O	Description
1	RBPLS	O	RADIAL BALANCE PLUS.
2	AMUTE	O	AUDIO ANALOG MUTE (H=MUTE ON).
3	GFS	I	GFS.
4	XVCDMD	I	AUDIO/VIDEO CD MODE (L=VCD=SPINDLE GAIN UP).
5	MD2	O	DOUT MUTE CONT.
6	EMPH	I	EMPHASIS.
7	SQSO	I	SQDATA FROM CD.
8	SQCK	O	SQCLK TO CD.
9	VSS	—	GND.
10	SWNT	I	SW TV OUT MODE (L=NTSC).
11	SWAUTO	I	SW TV OUT MODE (L=NTSC/PAL AUTO).
12	SWPAL	I	SW TV OUT MODE (L=PAL).
13	EMERG	I	POWER EMERGENCY STOP (L*3sec=STOP).
14	NC	—	Nou used.
15	LPCSEL	I	“LPC ON/OFF (H=ON, NORMAL)”.
16	NC	—	Nou used.
17	LOCK	O	GFS (FRAME SYNC) LOCK (NO USE=H).
18	DMUTE	O	DIGITAL DATA OUT MUTE.
19	SENS	I	DSP SENS1 FROM CD.
20	XCDRST	O	CD RESET.
21	DATA	O	DATA TO CD.
22	XLAT	O	XLT TO CD.
23	CLOK	O	CLK TO CD.
24	VSS	—	GND.
25	FOK	I	FOCUS OK.
26	SENS2	I	SSP SENS2 FROM CD.
27	XBUSY	I/O	READY/BUSY I/O TO HOST OD.
28	NC	—	Nou used.
29	NC	—	
30	NC	—	
31	TST0	I/O	CHECK LAND.
32	TST1	I/O	
33	TST2	I/O	
34	TST3	I/O	
35	RESET	I	RESET.
36	HRDY	I	HRDY FROM CL680.
37	XHINT	I	HINT FROM CL680.
38	NC	—	Nou used.
39	SCOR	I	SCOR FROM CD.
40	VDD	—	5.0VDD.
41	XO	O	8.0MHz CERALOCK.

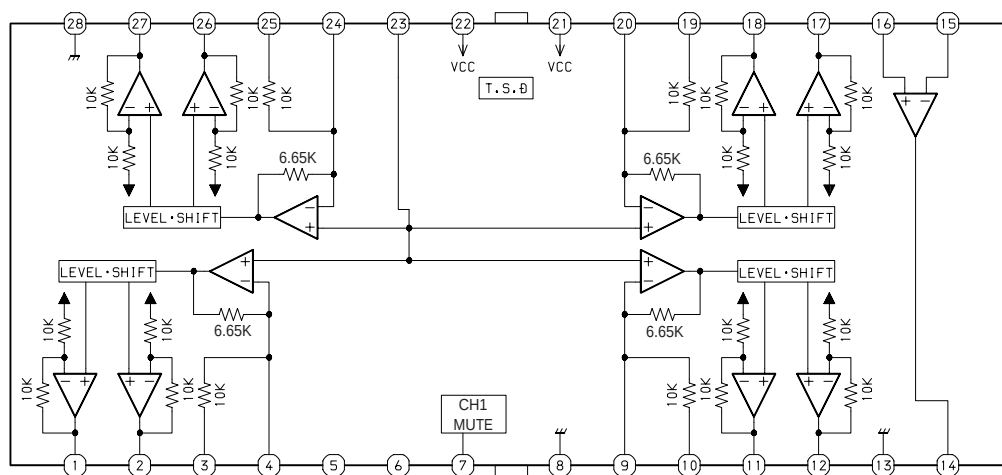
Pin No.	Pin Name	I/O	Description
42	XI	I	8.0MHz CERALOCK.
43	VSS	—	GND.
44	XT2	—	Nou used.
45	XT1	I	5.0VDD.
46	AVSS	—	GND.
47	XMPGRST	O	MPEG BLOCK IC RESET.
48	HSEL	O	ADDRESS/DATA SEL TO CL680.
49	INLSW	I	INSIDE LIMIT SW .
50	NC	—	Nou used.
51	OSDXCS	O	OSD CHIP SELECT.
52	ABSEL	I	CXA1992A/B SELECT (L=CXA1992A).
53	CLVSEL	I	CLV MODE SELECT (H=CLV-N).
54	AADSEL	I	AUTO ADJUST SELECT (H=AUTO ON).
55	AVDD	—	5.0VDD.
56	AVREF	—	
57	HDOUT	I	HD-OUT FROM CL680.
58	HDIN	O	HD-IN TO CL680.
59	HCK	O	HCK TO CL680.
60	OSDDATA	O	OSD DATA.
61	OSDCLK	O	OSD CLOCK.
62	COMMAND	I	COMMAND FROM HOST .
63	STATUS	O	STATUS TO HOST.
64	SCK	I	SCK FROM HOST.

IC, SM5878M

Pin No.	Pin Name	I/O	Description
1	MUTE	I	MODE = H: Soft mute ON/OFF terminal. (Mute at H). MODE = L: Attenuator level DOWN/UP terminal. (DOWN at H).
2	DEEM	I	De-emphasis ON/OFF terminal. (De-emphasis ON at H).
3	CKO	O	Oscillator clock output. (16.9344 MHz).
4	DVSS	—	Digital VSS terminal.
5	BCKI	I	Bit clock input terminal.
6	DI	I	Serial data input terminal.
7	DVDD	—	Digital VDD terminal.
8	LRCI	I	Sample rate clock (fs) input terminal. (H = L ch/L = R ch).
9	TSTN	I	Test input. (“H” or open during normal operation)
10	TO1	O	Test output 1. (Normally low level output).
11	AVDDL	—	Analog VDD terminal. (For L ch).
12	LO	O	Left channel analog output terminal.
13	AVSS	—	Analog VSS terminal.
14	RO	O	Right channel analog output terminal.
15	AVDDR	—	Analog VDD terminal. (For R ch).
16	MUTEO	O	Infinity zero detection output.
17	XVDD	—	X’tal system VDD terminal.
18	XTI	I	X’tal oscillator terminal. (Or external clock input terminal of 16.9344 MHz).
19	XTO	O	X’tal oscillator terminal.
20	XVSS	—	X’tal system VSS terminal.
21	DS	I	Double-speed/normal playback selection. (Double-speed at H).
22	RSTN	I	Reset terminal. (Reset at L).
23	MODE	I	Soft mute/Attenuator mode selection. (Soft mute at H).
24	ATCK	I	Attenuator level setup clock (Ignored when MODE = H).

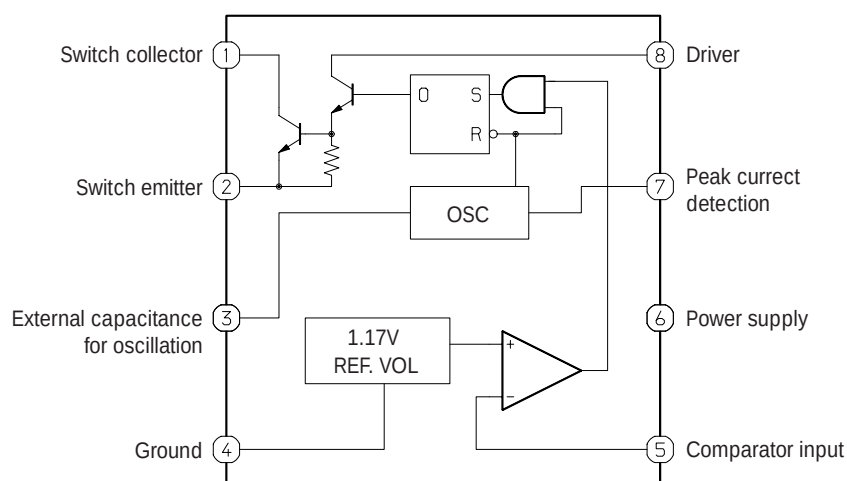
IC BLOCK DIAGRAM

IC, BA5915FP

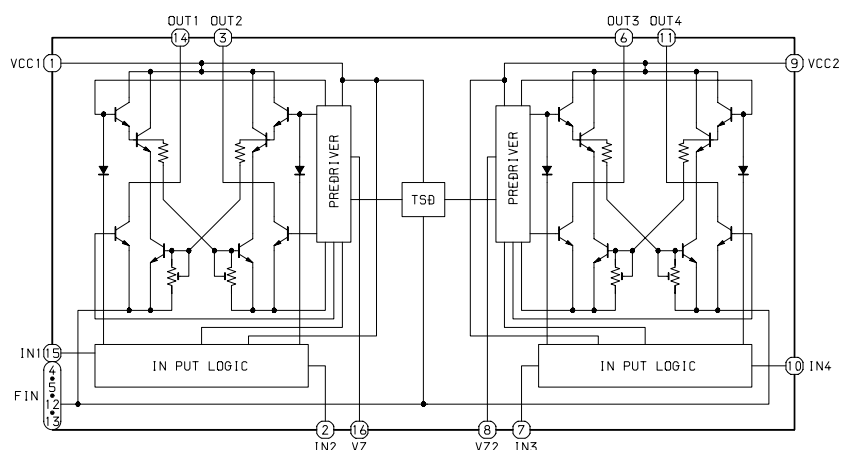


T.S.D: Thermal shut-down
Resistors are in units of Ω .

IC, M5291FP



IC, LB1644



TRUTH TABLE

IN1	IN2	OUT1	OUT2	IN3	IN4	OUT3	OUT4
0	0	L	L	0	0	L	L
1	0	H	L	1	0	H	L
0	1	L	H	0	1	L	H
1	1	L	L	1	1	L	L

INPUT				OUTPUT				MODE	
IN1	IN2	IN3	IN4	OUT1	OUT2	OUT3	OUT4	M1	M2
0	0	0	0	L	L	L	L	BRAKE	BRAKE
1	0	0	0	H	L	L	L	FF/REW	BRAKE
0	1	1	1	L	H	L	L	REW/FF	BRAKE
1	1	0	0	L	L	H	L	BRAKE	FF/REW
0	0	1	1	L	L	L	H	BRAKE	REW/FF
1	1	1	1	L	L	L	L	BRAKE	BRAKE

TEST MODE

1. How to Activate CD Test Mode

Insert the AC plug while pressing the function CD button.

All FL display tubes will light up, and the test mode will be activated.
2. How to Cancel CD Test Mode

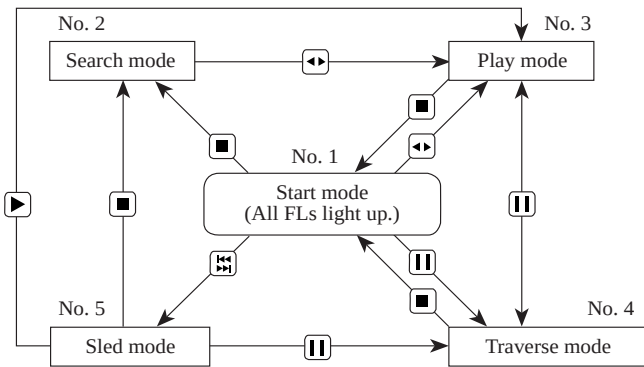
Either one of the following operations will cancel the CD test mode.

 - Press the function button.
 - Press the power switch button. (except CD function button)
 - Disconnect the AC plug
3. CD Test Mode Functions
- When test mode is activated, the following mode functions from No.1 to No.5 can be used by pressing the operation keys.

Mode/No.	Operation	FL display	Operation	Contents
Start mode No.1	Activation	TEST□□ □□ □□ Flashes repeatedly	• Test mode is activated. • CD block power is ON.	• Test mode
Search mode No.2	■ key		• Continual focus search (The pickup lens repeats the full-swing up-down motion.) * Avoid continual searches that last for more than 10 minutes. * NOTE 1	FOCUS SERVO • Check focus search waveform • Check focus error waveform (FOK/FZC are not monitored in the search mode)
Play mode No.3	◀▶ key		• Normal playback • Focus search is continued if TOC cannot be read. * NOTE 1	FOCUS SERVO/TRACKING SERVO CLV SERVO/SLED SERVO Check FOK/FZC
Traverse mode No.4	|| key		• During normal disc playback - Press once; tracking servo OFF - Press twice; tracking servo ON * NOTE 2	TRACKING SERVO ON/OFF Tracking balance (traverse) check
Sled mode No.5	⏮ key ⏭ key	All lamps light	• Pickup moves to the outermost track • Pickup moves to the innermost track * NOTE 3 (During playback, machine operates normally.)	SLED SERVO Check SLED mechanism operation

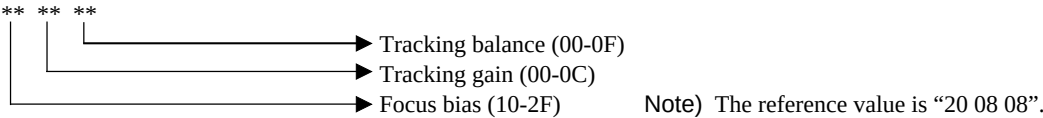
- * NOTE 1: There are cases when the tracking servo cannot be locked owing to the protection circuit being operated when heat builds up in the driver IC if the focus search is operated continually for more than 10 minutes. In these cases the power supply should be switched off for 10 minutes until heat has been reduced and then re-started.
- * NOTE 2: Do not press the ⏮ or ⏭ keys when the machine is in the || status is active. If they are pressed, playback will not be possible after the || status has been canceled. If the ⏮ or ⏭ keys are pressed in the || status, press the ■ key and return to the start mode (No.1).
- * NOTE 3: When pressing the ⏮ or ⏭ keys, take care to avoid damage to the gears. Because the sled motor is activated when the ⏮ or ⏭ keys are pressed, even when the pick-up is at the outermost or innermost track.

4. Operation Outline
- The operation of each mode is carried out in the direction of the arrows from the start mode as indicated in the following illustration.

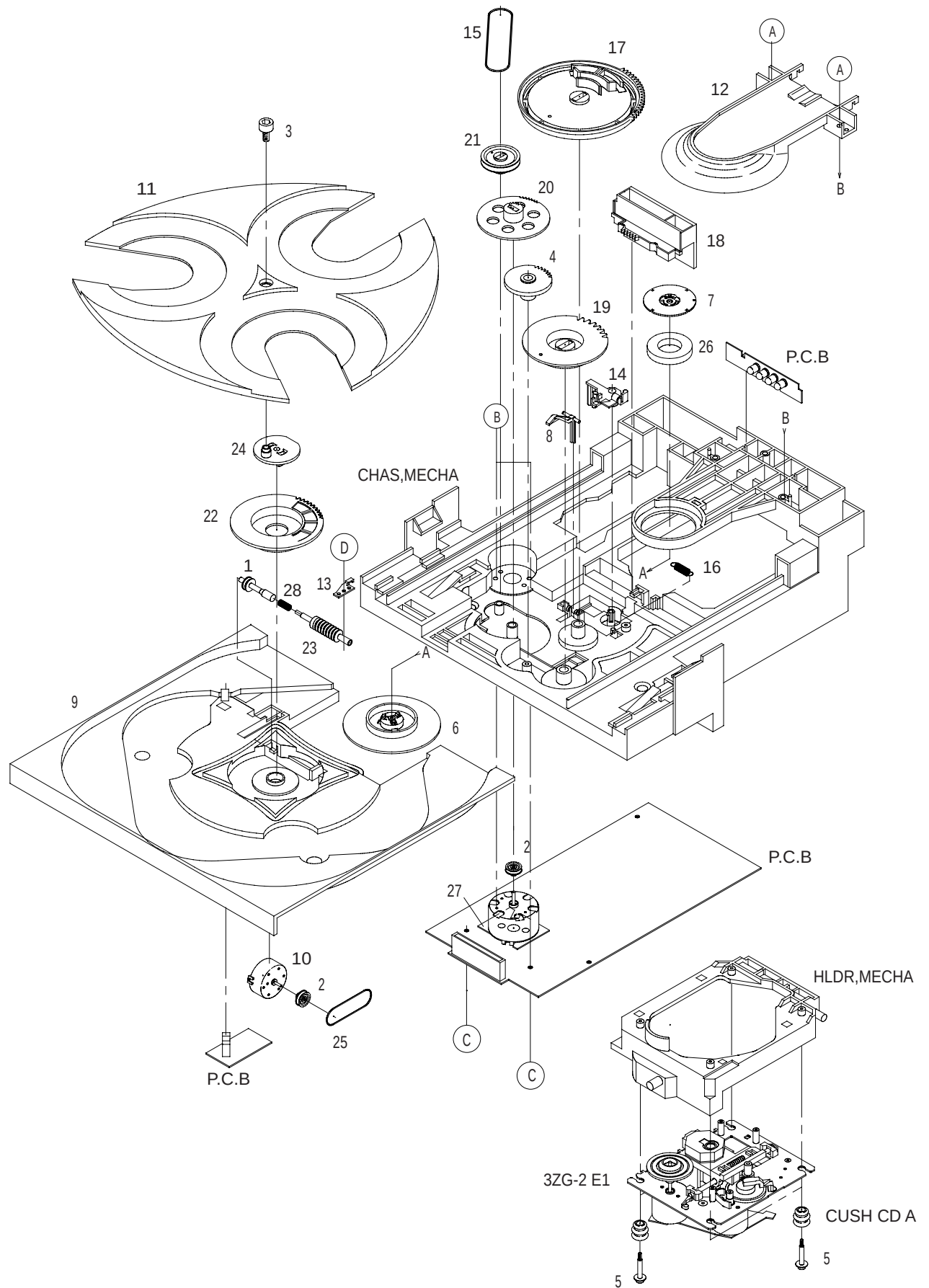


If the DISC DIRECT PLAY button is pressed, the machine performs the same operation as the PLAY button is pressed as shown. If the tray is opened by pressing OPEN/CLOSE button during Play mode or Traverse mode, the machine returns to the Start mode.

5. How to check the Automatic Adjustment Values
- The automatic adjustment values can be checked by pressing the square (■) button.
- FL display (displayed in hexadecimal values)



MECHANICAL EXPLODED VIEW 1/1

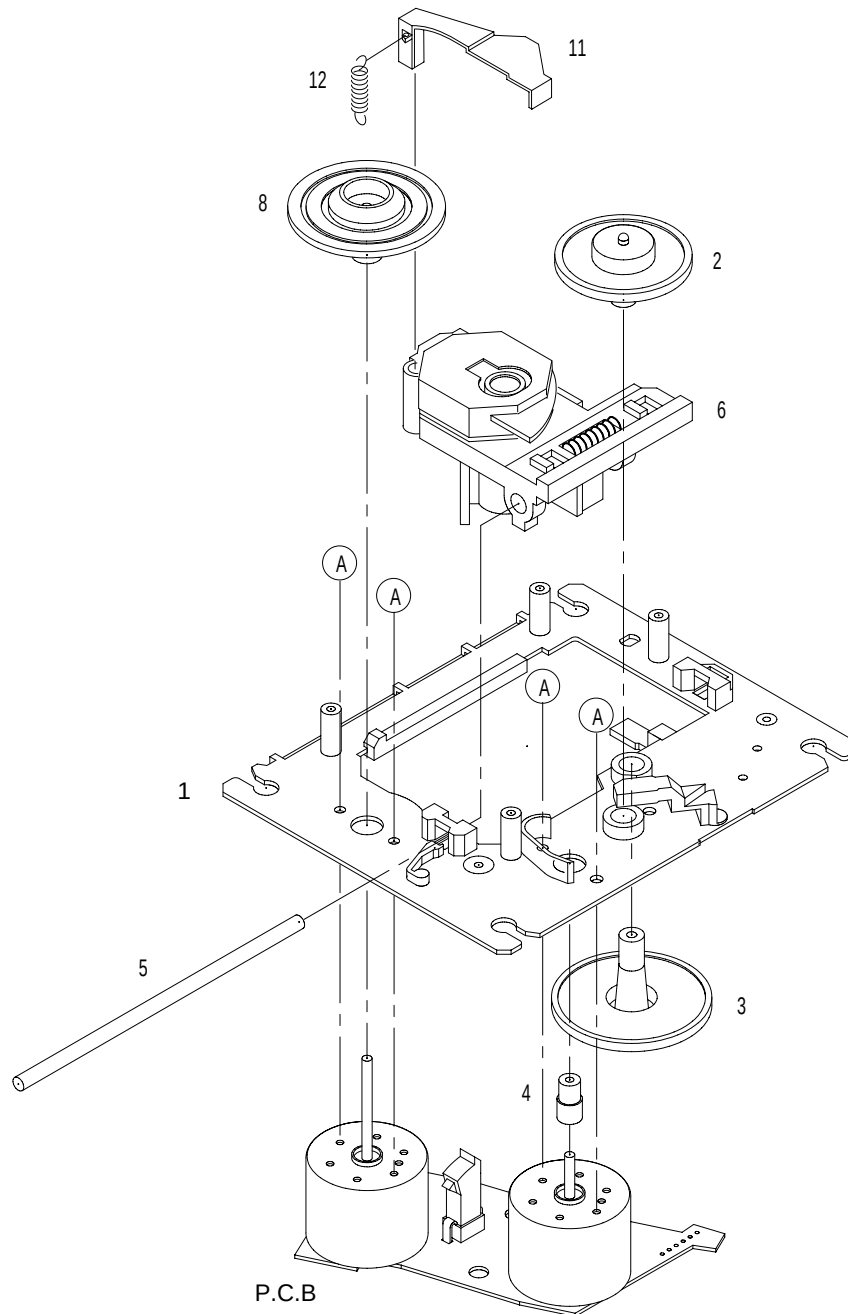


MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	84-ZG1-239-210		PULLY,WORM N	21	84-ZG1-207-010		PULLEY,RELAY
2	84-ZG1-267-010		PULLEY,LOAD MO 8	22	84-ZG1-221-010		GEAR,MAIN TT
3	81-ZG1-239-010		S-SCREW,TT	23	84-ZG1-238-010		GEAR,WORM N
4	81-ZG1-291-110		GEAR,TRAY RELAY NO3	24	84-ZG1-224-010		LEVER,TT
5	81-ZG1-271-010		S-SCREW MECH REAR	25	84-ZG1-225-010		BELT,SQ1.0-63.3
6	81-ZG1-277-310		HLDR,MAGNET N	26	83-ZG3-602-010		RING,MAG
7	81-ZG1-255-110		PLATE,MAGNET MK2	27	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
8	83-ZG3-213-010		LVR,SW	28	84-ZG1-248-010		SPR-C,WORM
9	84-ZG1-003-310		TRAY,N02-B	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
10	87-045-364-010		MOTOR(BCH3B14)	B	87-251-070-410		U+2.6-3
11	84-ZG1-005-210		TURNTABLE,N01(*)	C	87-342-036-210		UT2+2-8
12	84-ZG1-011-010		REFLECTOR,CD	D	87-067-981-010		BVT2+3-6 BLK
13	84-ZG1-259-010		SPR-P,WORM				
14	84-ZG1-208-210		LEVER,CAM				
15	84-ZG1-209-010		BELT,SQ1.8-117.7				
16	84-ZG1-211-010		SPR-E CAM S				
17	84-ZG1-215-410		GEAR,MAIN CAM BLU				
18	84-ZG1-216-310		SLIDE,MECHA CAM YEL				
19	84-ZG1-205-110		GEAR,TRAY				
20	84-ZG1-206-110		GEAR,RELAY				

CD MECHANISM EXPLODED VIEW 1/1 (3ZG-2 E1)



CD MECHANISM PARTS LIST 1/1 (3ZG-2 E1)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG2-243-110		CHAS ASSY,SHT
2	83-ZG2-235-010		GEAR,A3
3	83-ZG2-205-210		GEAR,B
4	83-ZG2-236-010		GEAR MOTOR 3
5	83-ZG2-240-010		SHAFT,SLIDE 3
6	87-A90-836-010		PICKUP,KSS-213F
8	83-ZG2-233-010		TURN TABLE,A5
11	83-ZG2-245-110		LEVER,SHUTTER
12	83-ZG2-250-010		SPR-E,SHT 2
A	87-261-032-210		SCREW V+2-3

USE MODEL LIST

CX-NAK572
CX-NK270
CX-NK290
CX-NK370
CX-NK570
CX-NK765
CX-NK770
CX-NK970
DX-SNKH100

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
Gー ー	
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